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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.
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(54) **Title:** INTERLEUKIN-2 AGENTS AND USES THEREOF

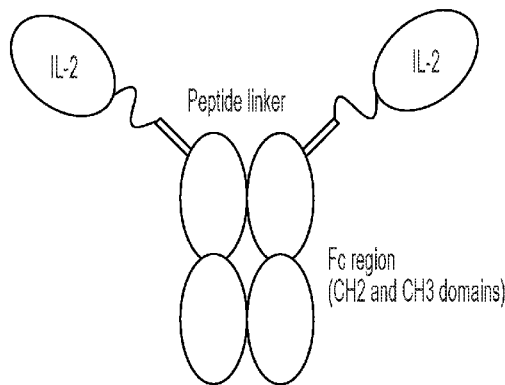


FIG. 1A

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APTSSSTKKTQLQLL[Q]LLLDLQMLNLCINN 30
YKNP[Q]L[Q]ML[Q]KPYMPKKA[Q]ELKHLQCLE 60
EELKPLEE[Q]LNL[Q]S[Q]K[Q]N[Q]HLRPR[Q]L[Q]S[Q]IN 90
V[Q]VLELKGSECC[Q]FMC[Q]SYAC[Q]EAT[Q]VEFLNR 120
WIT[Q]C[Q]SIISTLFGS 133

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[C125S]- improve stability (present in all sequences)
[V69A/Q74P]- reduce aggregation
[H16, D84, S87, N88, I92]- sites mutated to affect affinity for CD122/CD132
[K35, R38, F42]- sites mutated to affect affinity for CD25

FIG. 1B

(57) **Abstract:** IL-2 agents that comprise IL-2 variants are disclosed as well as methods, compositions, and uses thereof. The IL-2 agents described herein can be used to treat and/or prevent various disorders and conditions.



Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
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- *with sequence listing part of description (Rule 5.2(a))*

INTERLEUKIN-2 AGENTS AND USES THEREOF

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application No. 62/879,137, filed on
5 July 26, 2019, and U.S. Provisional Application No. 62/983,061, filed February 28, 2020. The
contents of the aforementioned applications are hereby incorporated by reference in their entirety.

SEQUENCE LISTING

The instant application contains a Sequence Listing which has been submitted electronically
10 in ASCII format and is hereby incorporated by reference in its entirety. Said ASCII copy, created
on July 20, 2020, is named P2029-7028WO_SL.txt and is 1,728,528 bytes in size.

BACKGROUND

Interleukin-2 (IL-2) is a cytokine that regulates the activities of the immune system. It is
15 produced by leukocytes, such as T cells, natural killer (NK) cells, dendritic cells, and macrophages, in
response to antigenic or mitogenic stimulation. IL-2 is important for T cell proliferation, B cell
stimulation, and other activities associated with immunity and tolerance. It is part of the body's
adaptive immune response and discriminates between foreign and host antigens. IL-2 mediates its
effects by binding to IL-2 receptors, which in turn activate downstream signaling events.

20 Human IL-2 is an-FDA approved drug for the treatment of diseases such as metastatic renal
carcinoma and melanoma. The use of IL-2 in eligible patients is sometimes restricted due to the
severe toxicity associated with IL-2 therapy, and only a small subset of eligible patients will actually
receive therapy. The toxicities associated with IL-2 therapy can include severe fever, nausea,
vomiting, vascular leak and serious hypotension. Despite these toxicities, however, IL-2 is typically
25 effective for its approved indications.

For patients with various diseases and conditions that are amenable to treatment with IL-2,
there continues to be an unmet need for novel IL-2-based agents that exhibit characteristics sufficient
for the development of a safe and efficacious therapeutic.

30 SUMMARY

This disclosure provides, at least in part, IL-2 agents (*e.g.*, IL-2 variants, IL-2 fusion proteins,
IL-2 complexes, and IL-2 conjugates) that comprise one or more amino acid alterations (*e.g.*,
substitutions) in IL-2, and that comprise one or more of the structural or functional properties
disclosed herein. In an embodiment, nucleic acid molecules encoding the IL-2 agents, expression
35 vectors, host cells, compositions (*e.g.*, pharmaceutical compositions), kits, containers, and methods
for making the IL-2 agents, are also provided. The IL-2 agents disclosed herein can be used (alone or

in combination with other agents or therapeutic modalities) to treat, prevent, and/or diagnose disorders, such as disorders and conditions disclosed herein.

The present disclosure is based, at least in part, on the discovery that a combination of mutations in IL-2 that stabilize the protein, reduce its affinity for CD122 (*e.g.*, CD122/CD132 heterodimer), and/or reduce or have no more than a minimal effect on its affinity for CD25, can be used to selectively enhance regulatory T cell (Treg) activity through the IL-2 pathway, and therefore achieve advantageous therapeutic effects for treating disorders and conditions such as autoimmune diseases. IL-2 agents comprising such mutations are suitable for treating conditions arising from abnormal immune responses, such as autoimmune diseases.

Accordingly, in certain aspects, this disclosure provides an IL-2 agent, *e.g.*, an IL-2 agent having one or more (*e.g.*, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, or all) of the following properties a)-x):

- a) Expresses at a higher or increased level *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or by increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as by an assay of protein concentration;
- b) Aggregates at lower or decreased level *in vitro* and/or *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-exclusion chromatography;
- c) Has enhanced or increased stability *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about

- 100%, or more, or increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by expression in yeast surface display, expression in mammalian cells, chromatography, circular dichroism or related spectroscopic technical, and/or melting temperature analysis (*e.g.*, using fluorimetry);
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- 2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by expression in yeast surface display, expression in mammalian cells, chromatography, circular dichroism or related spectroscopic technical, and/or melting temperature analysis (*e.g.*, using fluorimetry);
- d) Has enhanced or increased half-life *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or greater than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry;
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- 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or greater than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry;
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- e) Has a lower, reduced or decreased rate or level of turnover and/or clearance *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry;
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- decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry;
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- f) Has reduced or decreased or substantially unchanged binding affinity for CD25 (*e.g.*, human CD25), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more (*e.g.*, about 1% to about 20%, about 2% to about 15%, or about 5% to about 10%), or decreased or increased by no more than about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, or about 50%, or
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decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, or decreased or increased by no more than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, or about 5-fold, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by yeast surface display, bio-layer interferometry (*e.g.* Octet binding), and/or surface plasmon resonance (*e.g.* Biacore);

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10 g) Binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 5-500 pM, *e.g.*, about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, or *e.g.*, about 10 pM to about 490 pM, about 20 pM to about 480 pM, about 30 pM to about 470 pM, about 40 pM to about 460 pM, about 50 pM to about 450 pM, about 60 pM to about 440 pM, about 70 pM to about 430 pM, about 80 pM to about 420 pM, about 90 pM to about 410 pM, about 100 pM to about 400 pM, about 110 pM to about 390 pM, about 120 pM to about 380 pM, about 130 pM to about 370 pM, about 140 pM to about 360 pM, about 150 pM to about 350 pM, about 160 pM to about 340 pM, about 170 pM to about 330 pM, about 180 pM to about 320 pM, about 190 pM to about 310 pM, about 200 pM to about 300 pM, about 210 pM to about 290 pM, about 220 pM to about 280 pM, about 230 pM to about 270 pM, about 240 pM to about 260 pM, or *e.g.*, about 5 pM to about 450 pM, about 5 pM to about 400 pM, about 5 pM to about 350 pM, about 5 pM to about 300 pM, about 5 pM to about 250 pM, about 5 pM to about 200 pM, about 5 pM to about 150 pM, about 5 pM to about 100 pM, about 5 pM to about 50 pM, or *e.g.*, about 10 pM to about 500 pM, about 20 pM to about 500 pM, about 50 pM to about 500 pM, about 100 pM to about 500 pM, about 150 pM to about 500 pM, about 200 pM to about 500 pM, about 250 pM to about 500 pM, about 300 pM to about 500 pM, about 350 pM to about 500 pM, about 400 pM to about 500 pM, about 450 pM to about 500 pM, or *e.g.*, greater than about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, *e.g.* as determined yeast surface display;

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- h) Binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.1-10 nM, *e.g.*, about 0.1, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.5, about 2, about 2.5, about 3, about 3.5, about 4, about 4.5, about 5, about 6, about 7, about 8, about 9, or about 10 nM, or *e.g.*, about 0.1 to about 9 nM, about 0.1 to about 8 nM, about 0.1 to about 7 nM, or about 0.1 to about 6 nM, *e.g.*, about 0.1 to about 5 nM, about 0.1 to about 4 nM, about 0.1 to about 3 nM, about 0.1 to about 2 nM, about 0.1 to about 1 nM, or about 0.1 to about 0.5 nM, or *e.g.*, about 0.1 to about 10 nM, about 0.5 to about 10 nM, about 1 to about 10 nM, about 1.5 to about 10 nM, about 2 to about 10 nM, about 2.5 to about 10 nM, about 3 to about 10 nM, about 3.5 to about 10 nM, about 4 to about 10 nM, about 4.5 to about 10 nM, about 5 to about 10 nM, about 5.5 to about 10 nM, about 6 to about 10 nM, about 6.5 to about 10 nM, about 7 to about 10 nM, about 7.5 to about 10 nM, about 8 to about 10 nM, about 8.5 to about 10 nM, about 9 to about 10 nM, or about 9.5 to about 10 nM, or *e.g.*, about 0.1 to about 9.5 nM, about 0.5 to about 9 nM, about 1 to about 8.5 nM, about 1.5 to about 8 nM, about 2 to about 7.5 nM, about 2.5 to about 7 nM, about 3 to about 6.5 nM, about 3.5 to about 6 nM, about 4 to about 5.5 nM, or about 4.5 to about 5 nM, or *e.g.*, greater than about 0.1, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, or about 10 nM, *e.g.*, as determined by bio-layer interferometry (*e.g.*, Octet binding) and/or surface plasmon resonance (*e.g.* Biacore);
- i) Has reduced or decreased binding affinity for CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more (*e.g.*, about 1% to about 50%, about 2% to about 40%, about 3% to about 30%, about 4% to about 20%, or about 5% to about 10%, about 1% to about 40%, about 1% to about 30%, about 1% to about 20%, about 1% to about 10%, about 40% to about 50%, about 30% to about 50%, about 20% to about 50%, about 10% to about 50%, about 10% to about 20%, about 20% to about 30%, about 30% to about 40%, about 10% to about 30%, or 20% to about 40%), or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more (*e.g.*, about 0.5-fold to about 5-fold, about 1-fold to about 4-fold, or about 2-fold to about 3-fold), *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2

variant *e.g.*, as determined by yeast surface display, bio-layer interferometry (*e.g.* Octet binding), and/or surface plasmon resonance (*e.g.* Biacore);

- 5 j) Binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.2-20 nM, *e.g.*, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, or about 20 nM, or *e.g.*, about 0.2 to about 19 nM, about 0.2 to about 18 nM, about 0.2 to about 17 nM, or about 0.2 to about 16 nM, *e.g.*, about 0.2 to about 15 nM, about 0.1 to about 4 nM, about 0.1 to about 3 nM, about 0.1 to about 2 nM, about 0.1 to about 1 nM, or about 0.1 to about 0.5 nM, or *e.g.*, about 0.1 to about 10 nM, about 0.5 to about 10 nM, about 1 to about 10 nM, about 1.5 to about 10 nM, about 2 to about 10 nM, about 2.5 to about 10 nM, about 3 to about 10 nM, about 3.5 to about 10 nM, about 4 to about 10 nM, about 4.5 to about 10 nM, about 5 to about 10 nM, about 5.5 to about 10 nM, about 6 to about 10 nM, about 6.5 to about 10 nM, about 7 to about 10 nM, about 7.5 to about 10 nM, about 8 to about 10 nM, about 8.5 to about 10 nM, about 9 to about 10 nM, or about 9.5 to about 10 nM, or *e.g.*, about 0.1 to about 9.5 nM, about 0.5 to about 9 nM, about 1 to about 8.5 nM, about 1.5 to about 8 nM, about 2 to about 7.5 nM, about 2.5 to about 7 nM, about 3 to about 6.5 nM, about 3.5 to about 6 nM, about 4 to about 5.5 nM, or about 4.5 to about 5 nM, or *e.g.*, greater than about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, or about 20 nM, *e.g.*, as determined by yeast surface display.
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- k) Binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.2-300 nM, *e.g.*, about 0.2 nM, about 0.5 nM, about 1 nM, about 2 nM, about 5 nM, about 10 nM, about 15 nM, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or about 300 nM, or *e.g.*, About 0.2 to about 280 nM, about 0.2 to about 260 nM, about 0.2 to about 240 nM, about 0.2 to about 220 nM, about 0.2 to about 200 nM, about 0.2 to about 180 nM, about 0.2 to about 160 nM, about 0.2 to about 140 nM, about 0.2 to about 120 nM, about 0.2 to about 100 nM, about 0.2 to about 80 nM, about 0.2 to about 60 nM, about 0.2 to about 40 nM, about 0.2 to about 20 nM, or *e.g.*, about 0.5 to about 300 nM, about 1 to about 300

nM, about 5 to about 300 nM, about 10 to about 300 nM, about 20 to about 300 nM, about 40 to about 300 nM, about 60 to about 300 nM, about 80 to about 300 nM, about 100 to about 300 nM, about 120 to about 300 nM, about 140 to about 300 nM, about 160 to about 300 nM, about 180 to about 300 nM, about 200 to about 300 nM, about 220 to about 300 nM, about 240 to about 300 nM, about 260 to about 300 nM, about 280 to about 300 nM, or *e.g.*, about 0.5 to about 280 nM, about 1 to about 260 nM, about 5 to about 240 nM, about 10 to about 220 nM, about 20 to about 200 nM, about 40 to about 180 nM, about 60 to about 160 nM, about 80 to about 140 nM, about 100 to about 120 nM, or *e.g.*, greater than about 0.2, about 0.5, about 1, about 2, about 5, about 10, about 15, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or greater than about 300 nM, *e.g.*, as determined by biolayer interferometry (*e.g.* Octet binding) and/or surface plasmon resonance (*e.g.* Biacore);

- l) Selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an T helper EC₅₀/Treg EC₅₀ ratio greater than about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, about 19, about 20, about 21, about 22, about 23, about 24, about 25, about 26, about 27, about 28, about 29, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 150, about 200, about 250, about 300, about 350, about 400, about 450, about 500, about 600, about 700, about 800, about 900, about 1000, about 1500, about 2000, about 2500, or about 3000, or more, or *e.g.*, greater than 1 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40, greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to 40 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry;
- m) Selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an NK cell EC₅₀/Treg EC₅₀ ratio greater than about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, about 19, about 20, about 21, about 22, about

23, about 24, about 25, about 26, about 27, about 28, about 29, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 150, about 200, about 250, about 300, about 350, about 400, about 450, about 500, about 600, about 700, about 800, about 900, about 1000, about 1500, about 2000, about 2500, or about 3000, or more, or *e.g.*, greater than 1 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40, greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to 40 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry;

n) (i) Has enhanced or increased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC₅₀ for Tregs that is lower by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry, a T regulatory cell proliferation or expansion assay *in vitro* or *in vivo*, and/or a T cell suppression assay;

(ii) Has reduced or decreased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC₅₀ for Tregs that is higher by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, about 50-fold, about 100-fold, about 200-fold, about 500-fold, about 1000-fold, about 2000-fold, about 5000-fold, about 10,000-fold, about 15,000-fold, about 20,000-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as

determined flow cytometry, a T regulatory cell proliferation or expansion assay *in vitro* or *in vivo*, and/or a T cell suppression assay;

o) Modulates (*e.g.*, reduces (*e.g.*, inhibits, blocks, or neutralizes) or increases (*e.g.*, activates, initiates, or enhances) one or more biological activities of a T cell (*e.g.*, Treg), *in vitro*, *ex vivo*, or *in vivo*;

5

p) Shows the same or similar binding affinity or specificity, or both, as an IL-2 agent described herein;

q) Shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) alterations (*e.g.*,

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substitutions) described herein;

r) Shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising an amino acid sequence described herein;

s) Shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising an amino acid sequence encoded by a nucleotide sequence described herein;

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t) Inhibits, *e.g.*, competitively inhibits, the binding of a second IL-2 agent to an IL-2 receptor, wherein the second IL-2 agent is an IL-2 agent described herein,

u) Competes for binding to an IL-2 receptor with a second IL-2 agent, wherein the second IL-2 agent is an IL-2 agent described herein;

v) Has one or more biological properties of an IL-2 agent described herein;

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w) Has one or more structural properties of an IL-2 agent described herein; or

x) Has one or more pharmacokinetic properties of an IL-2 agent described herein.

In an embodiment, the IL-2 agent is expressed at a higher or increased level *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about

25 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or by increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent

30 comprising a reference IL-2 variant, *e.g.*, as by an assay of protein concentration. In an embodiment, the IL2-agent aggregates at lower or decreased level *in vitro* and/or *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or decreased by

35 about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more *e.g.*,

relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-exclusion chromatography.

In an embodiment, the IL-2 agent has enhanced or increased stability *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by expression in yeast surface display, expression in mammalian cells, chromatography, circular dichroism or related spectroscopic technical, and/or melting temperature analysis (*e.g.*, using fluorimetry).

In an embodiment the IL-2 agent as enhanced or increased half-life *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or greater than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

In an embodiment, the IL-2 agent has a lower, reduced or decreased rate or level of turnover and/or clearance *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more, or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

In an embodiment, the IL-2 agent has reduced or decreased or substantially unchanged binding affinity for CD25 (*e.g.*, human CD25), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about

40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more (*e.g.*, about 1% to about 20%, about 2% to about 15%, or about 5% to about 10%), or decreased or increased by no more than about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, or about 50%, or decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, or more, or decreased or increased by no more than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, or about 5-fold, *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by yeast surface display, bio-layer interferometry (*e.g.* Octet binding), and/or surface plasmon resonance (*e.g.* Biacore). In an embodiment, the reduction or decrease of binding affinity for CD25 is at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80% lower than the reduction or decrease of binding affinity for CD25. In an embodiment, the binding affinity for CD25 is not substantially reduced or decreased.

In an embodiment, the IL-2 agent binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (KD) of about 5-500 pM, *e.g.*, about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, or *e.g.*, about 10 pM to about 490 pM, about 20 pM to about 480 pM, about 30 pM to about 470 pM, about 40 pM to about 460 pM, about 50 pM to about 450 pM, about 60 pM to about 440 pM, about 70 pM to about 430 pM, about 80 pM to about 420 pM, about 90 pM to about 410 pM, about 100 pM to about 400 pM, about 110 pM to about 390 pM, about 120 pM to about 380 pM, about 130 pM to about 370 pM, about 140 pM to about 360 pM, about 150 pM to about 350 pM, about 160 pM to about 340 pM, about 170 pM to about 330 pM, about 180 pM to about 320 pM, about 190 pM to about 310 pM, about 200 pM to about 300 pM, about 210 pM to about 290 pM, about 220 pM to about 280 pM, about 230 pM to about 270 pM, about 240 pM to about 260 pM, or *e.g.*, about 5 pM to about 450 pM, about 5 pM to about 400 pM, about 5 pM to about 350 pM, about 5 pM to about 300 pM, about 5 pM to about 250 pM, about 5 pM to about 200 pM, about 5 pM to about 150 pM, about 5 pM to about 100 pM, about 5 pM to about 50 pM, or *e.g.*, about 10 pM to about 500 pM, about 20 pM to about 500 pM, about 50 pM to about 500 pM, about 100 pM to about 500 pM, about 150 pM to about 500 pM, about 200 pM to about 500 pM, about 250 pM to about 500 pM, about 300 pM to about 500 pM, about 350 pM to about 500 pM, about 400 pM to about 500 pM, about 450 pM to about 500 pM, or *e.g.*, greater than about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110,

about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, *e.g.* as determined yeast surface display.

In an embodiment, the IL-2 agent binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*,
5 with a dissociation constant (KD) of about 0.1-10 nM, *e.g.*, about 0.1, about 0.2, about 0.3, about 0.4,
about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.5, about 2, about 2.5, about 3,
about 3.5, about 4, about 4.5, about 5, about 6, about 7, about 8, about 9, or about 10 nM, or *e.g.*,
about 0.1 to about 9 nM, about 0.1 to about 8 nM, about 0.1 to about 7 nM, or about 0.1 to about 6
nM, *e.g.*, about 0.1 to about 5 nM, about 0.1 to about 4 nM, about 0.1 to about 3 nM, about 0.1 to
10 about 2 nM, about 0.1 to about 1 nM, or about 0.1 to about 0.5 nM, or *e.g.*, about 0.1 to about 10 nM,
about 0.5 to about 10 nM, about 1 to about 10 nM, about 1.5 to about 10 nM, about 2 to about 10 nM,
about 2.5 to about 10 nM, about 3 to about 10 nM, about 3.5 to about 10 nM, about 4 to about 10 nM,
about 4.5 to about 10 nM, about 5 to about 10 nM, about 5.5 to about 10 nM, about 6 to about 10 nM,
about 6.5 to about 10 nM, about 7 to about 10 nM, about 7.5 to about 10 nM, about 8 to about 10 nM,
15 about 8.5 to about 10 nM, about 9 to about 10 nM, or about 9.5 to about 10 nM, or *e.g.*, about 0.1 to
about 9.5 nM, about 0.5 to about 9 nM, about 1 to about 8.5 nM, about 1.5 to about 8 nM, about 2 to
about 7.5 nM, about 2.5 to about 7 nM, about 3 to about 6.5 nM, about 3.5 to about 6 nM, about 4 to
about 5.5 nM, or about 4.5 to about 5 nM, or *e.g.*, greater than about 0.1, about 0.2, about 0.3, about
0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 2, about 3, about 4, about 5,
20 about 6, about 7, about 8, about 9, or about 10 nM, *e.g.*, as determined by bio-layer interferometry
(*e.g.*, Octet binding) and/or surface plasmon resonance (*e.g.* Biacore).

In an embodiment, the IL-2 agent has reduced or decreased binding affinity for
CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer), *e.g.*, decreased by about 1%,
about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%,
25 about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about
75%, about 80%, about 85%, about 90%, about 95%, about 100%, or more (*e.g.*, about 1% to about
50%, about 2% to about 40%, about 3% to about 30%, about 4% to about 20%, or about 5% to about
10%, about 1% to about 40%, about 1% to about 30%, about 1% to about 20%, about 1% to about
10%, about 40% to about 50%, about 30% to about 50%, about 20% to about 50%, about 10% to
30 about 50%, about 10% to about 20%, about 20% to about 30%, about 30% to about 40%, about 10%
to about 30%, or 20% to about 40%), or decreased by about 0.5-fold, about 1-fold, about 1.5-fold,
about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold,
about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold,
about 9-fold, about 9.5-fold, about 10-fold, or more (*e.g.*, about 0.5-fold to about 5-fold, about 1-fold
35 to about 4-fold, or about 2-fold to about 3-fold), *e.g.*, relative to an IL-2 agent comprising a wild-type
IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by yeast surface display,
bio-layer interferometry (*e.g.* Octet binding), and/or surface plasmon resonance (*e.g.* Biacore). In an

embodiment, the reduction or decrease of binding affinity for CD122/CD132 heterodimer is at least 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, or 5-fold higher than the reduction or decrease of binding affinity for CD25. In an embodiment, the binding affinity for CD25 is not substantially reduced or decreased.

In an embodiment, the IL-2 agent binds to CD122/CD132 heterodimer (*e.g.*, human
5 CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (KD) of about 0.2-20
nM, *e.g.*, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1,
about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about
7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17,
about 18, or about 20 nM, or *e.g.*, about 0.2 to about 19 nM, about 0.2 to about 18 nM, about 0.2 to
10 about 17 nM, or about 0.2 to about 16 nM, *e.g.*, about 0.2 to about 15 nM, about 0.1 to about 4 nM,
about 0.1 to about 3 nM, about 0.1 to about 2 nM, about 0.1 to about 1 nM, or about 0.1 to about 0.5
nM, or *e.g.*, about 0.1 to about 10 nM, about 0.5 to about 10 nM, about 1 to about 10 nM, about 1.5 to
about 10 nM, about 2 to about 10 nM, about 2.5 to about 10 nM, about 3 to about 10 nM, about 3.5 to
about 10 nM, about 4 to about 10 nM, about 4.5 to about 10 nM, about 5 to about 10 nM, about 5.5 to
15 about 10 nM, about 6 to about 10 nM, about 6.5 to about 10 nM, about 7 to about 10 nM, about 7.5 to
about 10 nM, about 8 to about 10 nM, about 8.5 to about 10 nM, about 9 to about 10 nM, or about 9.5
to about 10 nM, or *e.g.*, about 0.1 to about 9.5 nM, about 0.5 to about 9 nM, about 1 to about 8.5 nM,
about 1.5 to about 8 nM, about 2 to about 7.5 nM, about 2.5 to about 7 nM, about 3 to about 6.5 nM,
about 3.5 to about 6 nM, about 4 to about 5.5 nM, or about 4.5 to about 5 nM, or *e.g.*, greater than
20 about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about
1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7,
about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about
18, or about 20 nM, *e.g.*, as determined by yeast surface display.

In an embodiment, the IL-2 agent binds to CD122/CD132 heterodimer (*e.g.*, human
25 CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (KD) of about 0.2-
300 nM, *e.g.*, about 0.2 nM, about 0.5 nM, about 1 nM, about 2 nM, about 5 nM, about 10 nM, about
15 nM, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70
nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about
140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM,
30 about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270
nM, about 280 nM, about 290 nM, or about 300 nM, or *e.g.*, about 0.2 to about 280 nM, about 0.2 to
about 260 nM, about 0.2 to about 240 nM, about 0.2 to about 220 nM, about 0.2 to about 200 nM,
about 0.2 to about 180 nM, about 0.2 to about 160 nM, about 0.2 to about 140 nM, about 0.2 to about
120 nM, about 0.2 to about 100 nM, about 0.2 to about 80 nM, about 0.2 to about 60 nM, about 0.2 to
35 about 40 nM, about 0.2 to about 20 nM, or *e.g.*, about 0.5 to about 300 nM, about 1 to about 300 nM,
about 5 to about 300 nM, about 10 to about 300 nM, about 20 to about 300 nM, about 40 to about 300
nM, about 60 to about 300 nM, about 80 to about 300 nM, about 100 to about 300 nM, about 120 to

about 300 nM, about 140 to about 300 nM, about 160 to about 300 nM, about 180 to about 300 nM, about 200 to about 300 nM, about 220 to about 300 nM, about 240 to about 300 nM, about 260 to about 300 nM, about 280 to about 300 nM, or *e.g.*, about 0.5 to about 280 nM, about 1 to about 260 nM, about 5 to about 240 nM, about 10 to about 220 nM, about 20 to about 200 nM, about 40 to about 180 nM, about 60 to about 160 nM, about 80 to about 140 nM, about 100 to about 120 nM, or *e.g.*, greater than about 0.2, about 0.5, about 1, about 2, about 5, about 10, about 15, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or greater than about 300 nM, *e.g.*, as determined by biolayer interferometry (*e.g.* Octet binding) and/or surface plasmon resonance (*e.g.* Biacore).

In an embodiment, the IL-2 agent selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an T helper EC50/Treg EC50 ratio greater than about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, about 19, about 20, about 21, about 22, about 23, about 24, about 25, about 26, about 27, about 28, about 29, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 150, about 200, about 250, about 300, about 350, about 400, about 450, about 500, about 600, about 700, about 800, about 900, about 1000, about 1500, about 2000, about 2500, or about 3000, or more, or *e.g.*, greater than 1 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40, greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to 40 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry. In an embodiment, the T helper cell is a CD45+CD3+CD4+Foxp3- cell, *e.g.*, determined by flow cytometry. In an embodiment, the Treg is CD45+CD3+CD4+Foxp3+ cell, *e.g.*, determined by flow cytometry.

In an embodiment, the IL-2 agent selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an NK cell EC50/Treg EC50 ratio greater than about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, about 19, about 20, about 21, about 22, about 23, about 24, about 25, about 26, about 27, about 28, about 29, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 150, about 200, about 250, about 300, about 350, about 400, about 450, about 500,

about 600, about 700, about 800, about 900, about 1000, about 1500, about 2000, about 2500, or about 3000, or more, or *e.g.*, greater than 1 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40, greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to 40 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry. In an embodiment, the NK cell is a CD45+CD3- cell that is CD56+ and/or CD16+, *e.g.*, determined by flow cytometry. In an embodiment, the NK cell is a CD45+CD3-CD56+ cell, *e.g.*, determined by flow cytometry. In an embodiment, the Treg is CD45+CD3+CD4+Foxp3+ cell, *e.g.*, determined by flow cytometry.

In an embodiment, the IL-2 agent has enhanced or increased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is lower by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry, a T regulatory cell proliferation or expansion assay *in vitro* or *in vivo*, and/or a T cell suppression assay.

In an embodiment, the IL-2 agent as reduced or decreased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is higher by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, about 50-fold, about 100-fold, about 200-fold, about 500-fold, about 1000-fold, about 2000-fold, about 5000-fold, about 10,000-fold, about 15,000-fold, about 20,000-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry, a T regulatory cell proliferation or expansion assay *in vitro* or *in vivo*, and/or a T cell suppression assay. In an embodiment, the IL-2 agent has reduced or decreased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is higher by about

100-fold or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant (*e.g.*, as determined flow cytometry, a T regulatory cell proliferation or expansion assay *in vitro* or *in vivo*, and/or a T cell suppression assay), and does not activate, or does not significantly activate, NK cells.

5 In an embodiment, the IL-2 agent modulates (*e.g.*, reduces (*e.g.*, inhibits, blocks, or neutralizes) or increases (*e.g.*, activates, initiates, or enhances) one or more biological activities of a T cell (*e.g.*, Treg), *in vitro*, *ex vivo*, or *in vivo*.

 In an embodiment, the IL-2 agent shows the same or similar binding affinity or specificity, or both, as an IL-2 agent described herein.

10 In an embodiment, the IL-2 agent shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) alterations (*e.g.*, substitutions) described herein.

 In an embodiment, the IL-2 agent shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising an amino acid sequence described herein.

15 In an embodiment, the IL-2 agent shows the same or similar binding affinity or specificity, or both, as an IL-2 agent comprising an amino acid sequence encoded by a nucleotide sequence described herein.

 In an embodiment, the IL-2 agent inhibits, *e.g.*, competitively inhibits, the binding of a second IL-2 agent to an IL-2 receptor, wherein the second IL-2 agent is an IL-2 agent described herein.

20 In an embodiment, the IL-2 agent competes for binding to an IL-2 receptor with a second IL-2 agent, wherein the second IL-2 agent is an IL-2 agent described herein.

 In an embodiment, the IL-2 agent has one or more biological properties of an IL-2 agent described herein.

25 In an embodiment, the IL-2 agent has one or more structural properties of an IL-2 agent described herein.

 In an embodiment, the IL-2 agent has one or more pharmacokinetic properties of an IL-2 agent described herein.

 In an embodiment, the interleukin-2 (IL-2) agent comprises a human IL-2 variant comprising an amino acid alteration (*e.g.*, substitution) at one or more (*e.g.*, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 30 14, or all) position(s) chosen from: T3, H16, I28, K35, R38, F42, E68, V69, Q74, D84, S87, N88, I92, C125, Q126, or a combination thereof, *e.g.*, corresponding to wild-type human IL-2. In another embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, or a combination thereof. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at positions V69 and Q74. In an embodiment, the IL-2 agent comprises the amino acid substitution V69A. In an embodiment, the IL-2 agent comprises the amino acid substitution 35 Q74P. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position H16, I92, D84, or a combination thereof. In an embodiment, the IL-2 agent comprises an

amino acid alteration (*e.g.*, substitution) at position H16, optionally wherein the amino acid substitution is H16N, H16L, or H16D. In an embodiment, the IL-2 agent comprises the amino acid substitution H16N. In an embodiment, the IL-2 agent comprises the amino acid substitution H16L. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position
5 I92, optionally wherein the amino acid substitution is I92S. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position D84, optionally wherein the amino acid substitution is D84V. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position K35, R38, F42, E68, or a combination thereof. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position K35, optionally wherein the
10 amino acid substitution is K35E. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position R38, optionally wherein the amino acid substitution is R38E, R38N or R38Q. In an embodiment, the IL-2 agent comprises the amino acid substitution R38N. In an embodiment, the IL-2 agent comprises the amino acid substitution R38Q. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position F42, optionally wherein the
15 amino acid substitution is F42K or F42Q. In an embodiment, the IL-2 agent comprises the amino acid substitution F42Q.

In an embodiment, the IL-2 agent comprises one or more (*e.g.*, two, three, four, or all) of (i)-(v):

(i) one or more (*e.g.*, two, three, four, five, six, or seven) amino acid alterations (*e.g.*,
20 substitutions) that reduce, or are identified to reduce, its affinity for CD122 (*e.g.*, CD122/CD132 heterodimer), *e.g.*, an alteration (*e.g.*, substitution) at position H16 (*e.g.*, H16L, H16N, or H16D), I28 (*e.g.*, I28T or I28F), D84 (*e.g.*, D84V), S87 (*e.g.*, S87R), N88 (*e.g.*, N88S, N88L, or N88D), I92 (*e.g.*, I92S), and/or Q126 (*e.g.*, Q126T, Q126K, or Q126R);

(ii) one or more (*e.g.*, two) amino acid alterations (*e.g.*, substitutions) that increase, or are
25 identified to increase, the stability of the IL-2 agent, *e.g.*, an alteration (*e.g.*, substitution) at position V69 (*e.g.*, V69A) and/or Q74 (*e.g.*, Q74P);

(iii) one or more (*e.g.*, two, three, or four) amino acid alterations (*e.g.*, substitutions) that
reduce, or are identified to reduce, its affinity for CD25, *e.g.*, an alteration (*e.g.*, substitution) at
position K35 (*e.g.*, K35E), R38 (*e.g.*, R38E, R38N, or R38Q), F42 (*e.g.*, F42K or F42Q), and/or E68
30 (*e.g.*, E68Q or E68N); or

(iv) one or more amino acid alterations (*e.g.*, substitutions) that reduce, or are identified to
reduce, O-glycosylation of the IL-2 agent, *e.g.*, an alteration (*e.g.*, substitution) at position T3 (*e.g.*,
T3A); or

(v) one or more amino acid alterations (*e.g.*, substitutions) that reduce, or are identified to
35 reduce, incorrect disulfide pairing and/or aggregation (*e.g.*, to improve stability) of the IL-2 agent,
e.g., an alteration (*e.g.*, substitution) at position C125 (*e.g.*, C125S).

IL-2 agent does not comprise (ii), (iv), and (v). In an embodiment, the IL-2 agent does not comprise (iii), (iv), and (v).

In an embodiment, the IL-2 agent does not comprise (i), (ii), (iii), and (iv). In an embodiment, the IL-2 agent does not comprise (i), (ii), (iii), and (v). In an embodiment, the IL-2 agent does not comprise (i), (ii), (iv), and (v). In an embodiment, the IL-2 agent does not comprise (i), (iii), (iv), and (v). In an embodiment, the IL-2 agent does not comprise (ii), (iii), (iv), and (v).

In an embodiment, the IL-2 agent does not comprise (i), (ii), (iii), (iv), and (v).

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution):

- (i) at position V69 and Q74, and/or at position K35; and
- (ii) at position H16, I92, or D84; and optionally
- (iii) at position R38, F42, E68, or a combination thereof.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution):

- (i) at position V69 and Q74, and/or at position K35; and
- (ii) at position H16, I92, or D84; and
- (iii) at position R38, F42, E68, or a combination thereof.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution):

- (i) at position V69 and Q74, and/or at position K35; and
- (ii) at position H16, I92, or D84; or
- (iii) at position R38, F42, E68, or a combination thereof.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution):

- (i) at position V69 and Q74; and/or at position K35; and
- (ii) at position H16, I92, D84, or a combination thereof, and
- (iii) at position R38, F42, E68, or a combination thereof.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and H16, optionally wherein the amino acid substitution is V69A, Q74P, and H16N or H16L, respectively, optionally wherein the amino acid substitutions are V69A, Q74P, and H16L. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and H16L.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and I92, optionally wherein the amino acid substitution is V69A, Q74P, and I92S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and I92S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and D84, optionally wherein the amino acid substitution is V69A, Q74P, and D84V, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and D84V.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38Q, respectively.

5 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and F42, optionally wherein the amino acid substitution is V69A, Q74P, and F42Q, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and F42Q.

10 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38N, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and R38N.

15 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38E, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and R38E.

20 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, and H16, optionally wherein the amino acid substitution is V69A, Q74P, K35E, and H16N or H16L, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, K35E, and H16N or H16L. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, K35E, and H16N. In an embodiment, the IL-2 agent comprises the amino acid substitution is V69A, Q74P, K35E, and H16L.

25 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, K35E, H16N, and R38N, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, K35E, H16N, and R38N.

30 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, H16N or H16L, and R38N or R38Q, respectively, optionally wherein the amino acid substitutions are V69A, Q74P, H16N or H16L, and R38Q. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, H16L, and R38Q.

35 In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position I28, E68, S87, N88, Q126, or a combination thereof. In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position I28, optionally wherein the amino acid substitution is I28T or I28F. In an embodiment, the IL-2 agent comprises the amino acid substitution I28T. In an embodiment, the IL-2 agent comprises the amino acid substitution I28F.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position E68, optionally wherein the amino acid substitution is E68Q or E68N. In an embodiment, the

IL-2 agent comprises the amino acid substitution E68Q. In an embodiment, the IL-2 agent comprises the amino acid substitution E68N.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position S87, optionally wherein the amino acid substitution is S87R. In an embodiment, the IL-2 agent comprises the amino acid substitution S87R.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position N88, optionally wherein the amino acid substitution is N88R, N88S, N88L, or N88D. In an embodiment, the IL-2 agent comprises the amino acid substitution N88R. In an embodiment, the IL-2 agent comprises the amino acid substitution N88S. In an embodiment, the IL-2 agent comprises the amino acid substitution N88L. In an embodiment, the IL-2 agent comprises the amino acid substitution N88D.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position Q126, optionally wherein the amino acid substitution is Q126T, Q126K, or Q126R. In an embodiment, the IL-2 agent comprises the amino acid substitution Q126T. In an embodiment, the IL-2 agent comprises the amino acid substitution Q126K. In an embodiment, the IL-2 agent comprises the amino acid substitution Q126R.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position C125, optionally wherein the amino acid substitution is C125S. In an embodiment, the IL-2 agent comprises the amino acid substitution C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position T3, optionally wherein the amino acid substitution is T3A. In an embodiment, the IL-2 agent comprises the amino acid substitution T3A.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and C125, optionally wherein the amino acid substitution is V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions V69A, Q74P, and C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, I92, or a combination thereof, optionally wherein the amino acid substitution is T3A, H16N, and I92S, respectively.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16N, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions H16N, V69A, Q74P, and C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16L, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions H16L, V69A, Q74P, and C125S. Various technical effects are associated with an IL-2

agent comprising the aforesaid combination of amino acid alterations. Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 agent comprising the amino acid substitutions H16L, V69A, Q74P, and C125S can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased (or has no more than a minimal effect on) binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 agent comprising the amino acid substitutions H16L, V69A, Q74P, and C125S particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 agent comprising the amino acid substitutions H16L, V69A, Q74P, and C125S, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased (*e.g.*, moderately reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is H16L, V69A, Q74P, I92S, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions H16L, V69A, Q74P, I92S, and C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions T3A, V69A, Q74P, and C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, H16N or H16L, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions T3A, H16N, V69A, Q74P, and C125S. In an embodiment, the IL-2 agent
5 comprises the amino acid substitutions T3A, H16L, V69A, Q74P, and C125S.

In an embodiment, the IL-2 agent comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is T3A, V69A, Q74P, I92S, and C125S, respectively. In an embodiment, the IL-2 agent comprises the amino acid substitutions T3A, V69A, Q74P, I92S, and C125S. In an embodiment, the IL-2 agent comprises the
10 amino acid substitutions T3A, V69A, Q74P, I92S, and C125S.

In an embodiment, the IL-2 agent comprises a human IL-2 variant comprising an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO:
15 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%,
20 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the amino acid alteration(s) (*e.g.*, substitution(s)) provides the IL-2 agent with at least one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, or all) of the following properties relative to a reference IL-2 agent that does not comprise the amino acid alteration(s) (*e.g.*, substitution(s)):

- 25 (i) enhanced or increased expression of the IL-2 agent;
(ii) inhibited or decreased aggregation of the IL-2 agent;
(iii) enhanced or increased stability of the IL-2 agent;
(iv) enhanced or increased half-life of the IL-2 agent;
(v) inhibited or decreased turnover and/or clearance of the IL-2 agent;
30 (vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially unchanged binding of the IL-2 agent to human CD25;
(vii) inhibited or decreased affinity of the IL-2 agent for human CD122;
(viii) inhibited or decreased affinity of the IL-2 agent for human CD132; or
(ix) inhibited or decreased affinity of the IL-2 agent for the dimeric IL-2 receptor
35 composed of human CD122 and human CD132;
(x) selective binding to regulatory T cells (*e.g.*, Foxp3+ T cells);
(xi) selective activation of the IL-2 signaling pathway in Tregs; or

(xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the IL-2 agent comprises a human IL-2 variant comprising one or more amino acid alteration(s) (*e.g.*, substitution(s)) chosen from H16D, H16N, H16L, I28T, K35E, R38Q, R38N, R38E, F42K, F42Q, V69A, Q74P, D84V, S87R, N88L, N88S, I92S, C125S; a polypeptide linker described herein; and a non-IL-2 moiety described herein; wherein the amino acid alteration(s) (*e.g.*, substitution(s)) provide(s) the IL-2 agent with at least one or more of the following properties relative to a reference IL-2 agent that does not comprise the amino acid alteration(s) (*e.g.*, substitution(s)):

- 10 (i) enhanced or increased expression of the IL-2 agent;
- (ii) inhibited or decreased aggregation of the IL-2 agent;
- (iii) enhanced or increased stability of the IL-2 agent;
- (iv) enhanced or increased half-life of the IL-2 agent;
- (v) inhibited or decreased turnover and/or clearance of the IL-2 agent;
- 15 (vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially unchanged binding of the IL-2 agent to human CD25;
- (vii) inhibited or decreased affinity of the IL-2 agent for human CD122;
- (viii) inhibited or decreased affinity of the IL-2 agent for human CD132;
- (ix) inhibited or decreased affinity of the IL-2 agent for the dimeric IL-2 receptor
- 20 composed of human CD122 and human CD132;
- (x) selective binding to regulatory T cells (*e.g.*, Foxp3+ T cells);
- (xi) selective activation of the IL-2 signaling pathway in Tregs; and/or
- (xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg expansion, activity, survival, and/or proliferation.

25 In an embodiment, the human IL-2 variant comprises the amino acid alteration(s) (*e.g.*, substitution(s)):

- (i) C125S;
- (ii) V69A, Q74P, and C125S;
- (iii) H16D, V69A, Q74P, and C125S;
- 30 (iv) H16N, V69A, Q74P, and C125S;
- (v) H16L, V69A, Q74P, and C125S;
- (vi) I28T, V69A, Q74P, and C125S;
- (vii) V69A, Q74P, D84V, and C125S;
- (viii) V69A, Q74P, S87R, and C125S;
- 35 (ix) V69A, Q74P, N88L, and C125S;
- (x) V69A, Q74P, N88S, and C125S;
- (xi) V69A, Q74P, I92S, and C125S;

- (xii) K35E, V69A, Q74P, and C125S;
- (xiii) K35E, H16N, V69A, Q74P, and C125S;
- (xiv) K35E, H16L, V69A, Q74P, and C125S;
- (xv) K35E, D84V, V69A, Q74P, and C125S;
- 5 (xvi) K35E, I92S, V69A, Q74P, and C125S;
- (xvii) R38Q, V69A, Q74P, and C125S;
- (xviii) R38Q, H16N, V69A, Q74P, and C125S;
- (xix) R38Q, H16L, V69A, Q74P, and C125S;
- (xx) R38Q, D84V, V69A, Q74P, and C125S;
- 10 (xxi) R38Q, I92S, Q74P, and C125S;
- (xxii) R38N, V69A, Q74P, and C125S;
- (xxiii) R38N, H16N, V69A, Q74P, and C125S;
- (xxiv) R38N, H16L, V69A, Q74P, and C125S;
- (xxv) R38N, D84V, V69A, Q74P, and C125S;
- 15 (xxvi) R38N, I92S, Q74P, and C125S;
- (xxvii) R38E, V69A, Q74P, and C125S;
- (xxviii) F42K, V69A, Q74P, and C125S;
- (xxix) F42Q, V69A, Q74P, and C125S;
- (xxx) F42A, Y45A, L72G, N88D, V69A, Q74P, and C125S;
- 20 (xxxi) R38N, S87R, V69A, Q74P, and C125S;
- (xxxii) R38E, H16N, V69A, Q74P, and C125S;
- (xxxiii) R38E, D84V, V69A, Q74P, and C125S;
- (xxxiv) R38E, S87R, V69A, Q74P, and C125S;
- (xxxv) R38E, I92S, V69A, Q74P, and C125S;
- 25 (xxxvi) F42Q, H16N, V69A, Q74P, and C125S;
- (xxxvii) F42Q, I92S, V69A, Q74P, and C125S; or
- (xxxviii) K35E, R38N, H16N, V69A, Q74P, and C125S.
- (xxxix) T3A, H16N, V69A, Q74P, and C125S;
- (xl) T3A, H16L, V69A, Q74P, and C125S; or
- (xli) T3A, V69A, Q74P, I92S, and C125S.

In an embodiment, the IL-2 agent comprises a human IL-2 variant comprising an amino acid sequence chosen from SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6,

30 SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35,

SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, or SEQ ID NO: 1002, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto; a polypeptide linker described herein; and a non-IL-2 moiety described herein; wherein the IL-2 agent exhibits at least one or more of the following properties relative to a reference IL-2 agent that does not comprise the human IL-2 polypeptide variant:

- (i) enhanced or increased expression of the IL-2 agent;
- (ii) inhibited or decreased aggregation of the IL-2 agent;
- 10 (iii) enhanced or increased stability of the IL-2 agent;
- (iv) enhanced or increased half-life of the IL-2 agent;
- (v) inhibited or decreased turnover and/or clearance of the IL-2 agent;
- (vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially unchanged binding of the IL-2 agent to human CD25;
- 15 (vii) inhibited or decreased affinity of the IL-2 agent for human CD122;
- (viii) inhibited or decreased affinity of the IL-2 agent for human CD132;
- (ix) inhibited or decreased affinity of the IL-2 agent for dimeric IL-2 receptor composed of human CD122 and human CD132;
- (x) selective binding to regulatory T cells (*e.g.*, Foxp3+ T cells);
- 20 (xi) selective activation of the IL-2 signaling pathway in Tregs; and/or
- (xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg expansion, activity and/or proliferation.

Various technical effects are associated with an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 5. Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 5 can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased (or has no more than a minimal effect on) binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 agent comprising the

amino acid sequence of SEQ ID NO: 5 particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 5, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased (*e.g.*, moderately reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1031, SEQ ID NO: 1, or SEQ ID NO: 2, or a functional fragment thereof. In an embodiment, the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1031. In an embodiment, the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1. In an embodiment, the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 2.

In an embodiment, the IL-2 agent comprises a human IL-2 variant described herein fused to a non-IL-2 moiety described herein by a linker, wherein the linker is a polypeptide linker, optionally wherein the polypeptide linker is a flexible linker, a rigid linker, or a cleavable linker. In an embodiment, the polypeptide linker is a Gly-Ser linker (*e.g.*, a (G4S)_n linker, wherein n = 1, 2, 3, 4, 5, 6 or more (SEQ ID NO: 1020)), a proline-rich extended linker (*e.g.*, V1 GPc, V2, GPGc, V3 GcGcP, cellulase linker 4, cellulase linker 4), a rigid linker (*e.g.*, A(EAAAK)_nA, wherein n = 2, 3, 4, 5, or more (SEQ ID NO: 1021); REPR_12), a non-GS linker (*e.g.*, (GGGSA)_n, wherein n = 1, 2, 3, 4, 5, or more (SEQ ID NO: 1022)), or an immunoglobulin hinge region or portion thereof. In an embodiment, the polypeptide linker is a Gly-Ser linker comprising (G4S)₁ (SEQ ID NO: 1023), (G4S)₂ (SEQ ID NO: 1024), (G4S)₃ (SEQ ID NO: 1025), (G4S)₄ (SEQ ID NO: 48), (G4S)₅ (SEQ ID NO: 1026), or (G4S)₆ (SEQ ID NO: 1027). In an embodiment, the polypeptide linker is a Gly-Ser linker comprising (G4S)₄ (SEQ ID NO: 48). In an embodiment, the polypeptide linker comprises an amino acid sequence chosen from SEQ ID NO: 48, SEQ ID NO: 49, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, SEQ ID NO: 54, or SEQ ID NO: 55. In an embodiment, the polypeptide linker comprises the amino acid sequence of SEQ ID NO: 48.

In an embodiment, the non-IL-2 moiety is an immunoglobulin Fc region, or a fragment or portion thereof (*e.g.*, a functional fragment). In an embodiment, the immunoglobulin Fc region comprises an IgG Fc region, an IgD Fc region, an IgA Fc region, an IgM Fc region, or an IgE Fc

region, or fragment or portion thereof. In an embodiment, the IgG Fc region comprises a wild type human IgG1 Fc region (*e.g.*, IgG1 m3 allotype), a wild type IgG2 Fc region, or a wild type human IgG4 Fc region, or a fragment or portion thereof.

In an embodiment, the IgG Fc region comprises a mutant IgG1 or mutant IgG4 Fc region, or a
5 fragment or portion thereof. In an embodiment, the IgG Fc region comprises one or more (*e.g.*, two, three, four, or five) mutations, *e.g.*, one or more (*e.g.*, two, three, four, or five) mutations described herein.

In an embodiment, the IgG Fc region comprises a mutant IgG4 Fc region, or a fragment or portion thereof, wherein the mutant IgG4 Fc region is human.

10 In an embodiment, the mutant IgG4 Fc region, or fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Ser228, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Ser228 is S228P. In an embodiment, the mutant IgG4 Fc region comprises the amino acid substitution S228P.

In an embodiment, the mutant IgG4 Fc region, or fragment or portion thereof, comprises an
15 amino acid alteration (*e.g.*, substitution) at Arg409, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Arg409 is R409K. In an embodiment, the mutant IgG4 Fc region comprises the amino acid substitution R409K.

In an embodiment, the mutant IgG4 Fc region, or a fragment or portion thereof, comprises
20 amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively. In an embodiment, the mutant IgG4 Fc region comprises the amino acid substitutions T307Q, Q311V, and A378V.

In an embodiment, the mutant IgG4 Fc region comprises an amino acid sequence chosen from
25 SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, or SEQ ID NO: 47, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IgG Fc region comprises a mutant IgG1 Fc region, or a fragment or
30 portion thereof, wherein the mutant IgG1 Fc region is human. In an embodiment, the mutant IgG1 Fc region (*e.g.*, comprising an N297G substitution) has an IgG1 m3 allotype.

In an embodiment, the mutant IgG1 Fc region, or a fragment or portion thereof, comprises an
amino acid alteration (*e.g.*, substitution) at Asn297, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Asn297 is N297G. In an
embodiment, the mutant IgG1 Fc region comprises the amino acid substitution N297G.

35 In an embodiment, the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Leu234, Leu235, and Pro329, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are L234A, L235A,

and P329G, respectively. In an embodiment, the mutant IgG1 Fc region comprises the amino acid substitutions L234A, L235A, and P329G.

In an embodiment, the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively. In an embodiment, the mutant IgG1 Fc region comprises the amino acid substitutions T307Q, Q311V, and A378V.

In an embodiment, the mutant IgG1 Fc region comprises an amino acid sequence chosen from SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, or SEQ ID NO: 1003, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the mutant IgG1 Fc region comprises an amino acid sequence of SEQ ID NO: 1003, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the mutant IgG1 Fc region comprises an amino acid sequence of SEQ ID NO: 1003.

In an embodiment, the non-IL-2 moiety inhibits or decreases the ability of the IL-2 agent to elicit Fc-receptor-mediated immune effector functions.

In an embodiment, the IL-2 agent comprises an IL-2 variant comprising an amino acid sequence chosen from SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, or SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, or SEQ ID NO: 1002, or a functional fragment thereof; wherein the IL-2 agent comprises a Gly-Ser linker, optionally wherein the Gly-Ser linker comprises (G₄S)₄ (SEQ ID NO: 48), and wherein the IL-2 variant is fused by the Gly-Ser linker to an IgG Fc region comprising an amino acid sequence chosen from SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, or SEQ ID NO: 1003.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 61, SEQ ID NO: 62, SEQ ID NO: 63, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO: 73, SEQ ID NO: 74, SEQ ID NO: 75, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78, SEQ ID

NO: 79, SEQ ID NO: 80, SEQ ID NO: 81, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 1004, SEQ ID NO: 1005, SEQ ID NO: 1006, SEQ ID NO: 1007, SEQ ID NO: 1008, or SEQ ID NO: 1009, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 94, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO: 99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 103, SEQ ID NO: 104, SEQ ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, SEQ ID NO: 108, SEQ ID NO: 109, SEQ ID NO: 110, SEQ ID NO: 111, SEQ ID NO: 112, SEQ ID NO: 113, SEQ ID NO: 114, SEQ ID NO: 115, SEQ ID NO: 116, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 120, SEQ ID NO: 121, SEQ ID NO: 122, SEQ ID NO: 123, SEQ ID NO: 124, SEQ ID NO: 125, SEQ ID NO: 126, SEQ ID NO: 127, SEQ ID NO: 128, SEQ ID NO: 129, SEQ ID NO: 130, or SEQ ID NO: 131, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 132, SEQ ID NO: 133, SEQ ID NO: 134, SEQ ID NO: 135, SEQ ID NO: 136, SEQ ID NO: 137, SEQ ID NO: 138, SEQ ID NO: 139, SEQ ID NO: 140, SEQ ID NO: 141, SEQ ID NO: 142, SEQ ID NO: 143, SEQ ID NO: 144, SEQ ID NO: 145, SEQ ID NO: 146, SEQ ID NO: 147, SEQ ID NO: 148, SEQ ID NO: 149, SEQ ID NO: 150, SEQ ID NO: 151, SEQ ID NO: 152, SEQ ID NO: 153, SEQ ID NO: 154, SEQ ID NO: 155, SEQ ID NO: 156, SEQ ID NO: 157, SEQ ID NO: 158, SEQ ID NO: 159, SEQ ID NO: 160, SEQ ID NO: 161, SEQ ID NO: 162, SEQ ID NO: 163, SEQ ID NO: 164, SEQ ID NO: 165, SEQ ID NO: 166, SEQ ID NO: 167, SEQ ID NO: 168, or SEQ ID NO: 169, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 170, SEQ ID NO: 171, SEQ ID NO: 172, SEQ ID NO: 173, SEQ ID NO: 174, SEQ ID NO: 175, SEQ ID NO: 176, SEQ ID NO: 177, SEQ ID NO: 178, SEQ ID NO: 179, SEQ ID NO: 180, SEQ ID NO: 181, SEQ ID NO: 182, SEQ ID NO: 183, SEQ ID NO: 184, SEQ ID NO: 185, SEQ ID NO: 186, SEQ ID NO: 187, SEQ ID NO: 188, SEQ ID NO: 189, SEQ ID NO: 190, SEQ ID NO: 191, SEQ ID NO: 192, SEQ ID NO: 193, SEQ ID NO: 194, SEQ ID NO: 195, SEQ ID NO: 196, SEQ ID NO: 197, SEQ ID NO: 198, SEQ ID NO: 199, SEQ ID NO: 200, SEQ ID NO: 201, SEQ ID NO: 202, SEQ ID NO: 203, SEQ ID NO: 204, SEQ ID NO: 205, SEQ ID NO: 206, or SEQ ID NO: 207, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 208, SEQ ID NO: 209, SEQ ID NO: 210, SEQ ID NO: 211, SEQ ID NO: 212, SEQ ID NO: 213, SEQ ID NO: 214, SEQ ID NO: 215, SEQ ID NO: 216, SEQ ID NO: 217, SEQ ID NO: 218, SEQ ID NO: 219, SEQ ID NO: 220, SEQ ID NO: 221, SEQ ID NO: 222, SEQ ID NO: 223, SEQ ID NO: 224, SEQ ID NO: 225, SEQ ID NO: 226, SEQ ID NO: 227, SEQ ID NO: 228, SEQ ID NO: 229, SEQ ID

NO: 230, SEQ ID NO: 231, SEQ ID NO: 232, SEQ ID NO: 233, SEQ ID NO: 234, SEQ ID NO: 235, SEQ ID NO: 236, SEQ ID NO: 237, SEQ ID NO: 238, SEQ ID NO: 239, SEQ ID NO: 240, SEQ ID NO: 241, SEQ ID NO: 242, SEQ ID NO: 243, SEQ ID NO: 244, or SEQ ID NO: 245, or a functional fragment thereof.

5 In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID NO: 246, SEQ ID NO: 247, SEQ ID NO: 248, SEQ ID NO: 249, SEQ ID NO: 250, SEQ ID NO: 251, SEQ ID NO: 252, SEQ ID NO: 253, SEQ ID NO: 254, SEQ ID NO: 255, SEQ ID NO: 256, SEQ ID NO: 257, SEQ ID NO: 258, SEQ ID NO: 259, SEQ ID NO: 260, SEQ ID NO: 261, SEQ ID NO: 262, SEQ ID NO: 263, SEQ ID NO: 264, SEQ ID NO: 265, SEQ ID NO: 266, SEQ ID NO: 267, SEQ ID
10 NO: 268, SEQ ID NO: 269, SEQ ID NO: 270, SEQ ID NO: 271, SEQ ID NO: 272, SEQ ID NO: 273, SEQ ID NO: 274, SEQ ID NO: 275, SEQ ID NO: 276, SEQ ID NO: 277, SEQ ID NO: 278, SEQ ID NO: 279, SEQ ID NO: 280, SEQ ID NO: 281, SEQ ID NO: 282, or SEQ ID NO: 283, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID
15 NO: 284, SEQ ID NO: 285, SEQ ID NO: 286, SEQ ID NO: 287, SEQ ID NO: 288, SEQ ID NO: 289, SEQ ID NO: 290, SEQ ID NO: 291, SEQ ID NO: 292, SEQ ID NO: 293, SEQ ID NO: 294, SEQ ID NO: 295, SEQ ID NO: 296, SEQ ID NO: 297, SEQ ID NO: 298, SEQ ID NO: 299, SEQ ID NO: 300, SEQ ID NO: 301, SEQ ID NO: 302, SEQ ID NO: 303, SEQ ID NO: 304, SEQ ID NO: 305, SEQ ID NO: 306, SEQ ID NO: 307, SEQ ID NO: 308, SEQ ID NO: 309, SEQ ID NO: 310, SEQ ID NO: 311,
20 SEQ ID NO: 312, SEQ ID NO: 313, SEQ ID NO: 314, SEQ ID NO: 315, SEQ ID NO: 316, SEQ ID NO: 317, SEQ ID NO: 318, SEQ ID NO: 319, SEQ ID NO: 320, or SEQ ID NO: 321, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises an amino acid sequence chosen from SEQ ID
NO: 322, SEQ ID NO: 323, SEQ ID NO: 324, SEQ ID NO: 325, SEQ ID NO: 326, SEQ ID NO: 327,
25 SEQ ID NO: 328, SEQ ID NO: 329, SEQ ID NO: 330, SEQ ID NO: 331, SEQ ID NO: 332, SEQ ID NO: 333, SEQ ID NO: 334, SEQ ID NO: 335, SEQ ID NO: 336, SEQ ID NO: 337, SEQ ID NO: 338, SEQ ID NO: 339, SEQ ID NO: 340, SEQ ID NO: 341, SEQ ID NO: 342, SEQ ID NO: 343, SEQ ID NO: 344, SEQ ID NO: 345, SEQ ID NO: 346, SEQ ID NO: 347, SEQ ID NO: 348, SEQ ID NO: 349, SEQ ID NO: 350, SEQ ID NO: 351, SEQ ID NO: 352, SEQ ID NO: 353, SEQ ID NO: 354, SEQ ID
30 NO: 355, SEQ ID NO: 356, SEQ ID NO: 357, SEQ ID NO: 358, or SEQ ID NO: 359, or a functional fragment thereof.

In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 59, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 97, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the
35 amino acid sequence of SEQ ID NO: 135, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 173, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 211, or a

acid sequence of SEQ ID NO: 1006, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1007, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1008, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of
5 SEQ ID NO: 1009, or a functional fragment thereof.

Various technical effects are associated with an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 1008. Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 1008 can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for
10 CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased (or has no more than a minimal effect on) binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T
15 effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 variant an IL-2 agent
20 comprising the amino acid sequence of SEQ ID NO: 1008 particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 agent comprising the amino acid sequence of SEQ ID NO: 1008, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i)
25 enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased (*e.g.*,
30 moderately reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

35 In an embodiment, the IL-2 agent forms a dimer (*e.g.*, a homodimer or heterodimer).

In an embodiment, the IL-2 agent comprises an IL-2 fusion protein. In an embodiment, the IL-2 agent comprises an IL-2 agent/anti-IL-2 antibody complex. In an embodiment, the IL-2 agent comprises a conjugate.

In some aspects, the disclosure provides a pharmaceutical composition comprising an IL-2 agent described, and a pharmaceutically acceptable carrier. In some aspects, the disclosure provides a nucleic acid encoding an IL-2 agent described herein. In some aspects, the disclosure provides a vector (*e.g.*, expression vector) comprising a nucleic acid encoding an IL-2 agent described herein. In some aspects, the disclosure provides a cell (*e.g.*, isolated cell) comprising a nucleic acid encoding an IL-2 agent described herein or a vector (*e.g.*, expression vector) comprising a nucleic acid encoding an IL-2 agent described herein.

In some aspects, the disclosure provides a method of producing an IL-2 agent, comprising culturing (*e.g.*, maintaining) a cell comprising a nucleic acid encoding an IL-2 agent described herein or a vector (*e.g.*, expression vector) comprising a nucleic acid encoding an IL-2 agent described herein under conditions permitting expression of the IL-2 agent. In an embodiment, the method further comprising obtaining the IL-2 agent. In an embodiment, the method further comprising purifying the IL-2 agent.

In some aspects, the disclosure provides a method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells (*e.g.*, *in vitro*, *ex vivo*, or *in vivo*) or administering to a subject in need thereof an effective amount of an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides a method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells (*e.g.*, *in vitro*, *ex vivo*, or *in vivo*) or administering to a subject in need thereof an effective amount of an IL-2 agent described herein, or a pharmaceutical composition of comprising the IL-2 agent. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides a method of inducing immune tolerance in a subject in need thereof, comprising administering an effective amount of an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides a method of treating a subject having a disorder (*e.g.*, a disorder described herein, *e.g.*, an autoimmune disease, lupus nephritis, autoimmune hepatitis, nephrotic syndrome, or a cancer) comprising administering to the subject an effective amount of an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides an IL-2 agent or a composition for use in a method for the treatment of a subject having a disorder (*e.g.*, a disorder described herein, *e.g.*, an autoimmune disease, lupus nephritis, autoimmune hepatitis, nephrotic syndrome, or a cancer), the method comprising administering an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent, to said subject. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides use of an IL-2 agent or a composition in the manufacture of a medicament in a method for the treatment of a subject having a disorder (*e.g.*, a disorder described herein, *e.g.*, an autoimmune disease, lupus nephritis, autoimmune hepatitis, nephrotic syndrome, or a cancer), the method comprising administering an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent, to said subject. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides a kit comprising an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent, and instructions for use. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

In some aspects, the disclosure provides a container comprising an IL-2 agent described herein, or a pharmaceutical composition comprising the IL-2 agent. The IL-2 agent may, for example, comprise the amino acid substitutions H16L, V69A, Q74P and C125S, or the amino acid substitutions H16N, V69A, Q74P and C125S. In an embodiment, the IL-2 agent comprises amino acid substitutions H16L, V69A, Q74P and C125S.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A provides a schematic illustrating the domain structure of an exemplary, non-limiting embodiment of an IL-2 agent provided for herein. The IL-2 agent comprises an IL-2 moiety or variant

(also referred to herein as a “mutein”), a peptide linker, an Fc containing hinge sequence, and CH2 and CH3 domains of an antibody, as indicated. **FIG. 1B** provides a depiction of an amino acid sequence of human IL-2 (SEQ ID NO: 1030) showing exemplary, non-limiting positions where, when mutated, results in an effect on IL-2 receptor binding and IL-2-mediated signaling activity *in vitro* and *in vivo*.

FIG. 2 provides a schematic illustrating a cell-based method to generate libraries of IL-2 variants using yeast surface display, and to select stable and active clones from those libraries. Mutations of IL-2 or an IL-2 variant expressed by an initial clone are generated by DNA synthesis or error-prone PCR and transformed into yeast cells. Yeast cells are stained with anti-Myc antibody and fluorescent secondary antibody to determine IL-2 expression (x-axis), and with recombinant CD25, anti-6xHis antibody (“6xHis” disclosed as SEQ ID NO: 1028) and fluorescent secondary antibody to measure bound CD25 (y-axis). In some versions of the experiment, an HA-tag is used in addition to or in place of the Myc-tag. Fluorescence-activated cell sorting is used to enrich IL-2 variants showing both high expression and high binding activity.

FIG. 3A provides a graph depicting the results of a method using IL-2 receptor titration to determine the affinity and binding capacity of IL-2 muteins displayed on the surface of yeast. Yeast clones expressing the indicated IL-2 muteins were incubated with a range of concentrations of CD25 extracellular domain tagged with 6xHis (“6xHis” disclosed as SEQ ID NO: 1028). Bound CD25 was measured by staining with anti-6xHis antibody (“6xHis” disclosed as SEQ ID NO: 1028) and fluorescent secondary antibody. Several exemplary IL-2 muteins are shown. Curve fitting was used to determine the binding affinity (K_D) and maximum binding signal (data not shown). **FIG. 3B** provides a graph depicting the relative binding capacity for selected IL-2 muteins (maximum binding signal normalized to IL-2 expression level).

FIG. 4A provides a graph illustrating thermal denaturation (melting curves) of selected IL-2 agents (IL-2-Fc fusion proteins) as determined by SYPRO Orange fluorescence. The native IL-2-Fc fusion showed maximum signal at low temperature, indicating presence of unfolding protein, while the V69A/Q74P mutein shows an unfolding event as temperature increases. **FIG. 4B** provides a HPLC size-exclusion chromatogram showing that most of the native IL-2-Fc fusion elutes very early from the column (>670 kDa), indicative of unfolded protein aggregation. In contrast, the V69A/Q74P IL-2-Fc elutes as a single peak at the expected time for an 84 kDa protein.

FIGs. 5A-5B provide scatterplots showing the results of a yeast cell sorting procedure used to identify mutations that affect the interaction with CD122 and/or CD132 IL-2 receptors. Yeast expressing a library of IL-2 variants on their surface were stained with CD122/CD132 Fc heterodimer at the indicated concentration, and bound receptors were detected using a fluorescent anti-human Fc secondary antibody. Surface IL-2 expression was detected with anti-Myc antibody and fluorescent secondary antibody. Cells within the indicate gates (boxes) were sorted and recovered, and the IL-2

muteins enriched in these populations determined by a combination of Sanger sequencing and next-generation sequencing.

FIG. 6A provides a graph showing the results of a method to determine fractional saturation of yeast expressing the indicated IL-2 mutein on their surface after titration with CD122/CD132 Fc heterodimer at the indicated concentrations. All muteins depicted contain V69A/Q74P in addition to the indicated mutation. Bound CD122/CD132 was labeled using an anti-human Fc fluorescent secondary and measured using an Accuri C6 flow cytometer. Fractional saturation was calculated by fitting each curve to a 4-parameter dose response to estimate maximum binding signal for each curve, then normalized so the estimated maximum is defined as 1. **FIG 6B** provides a graph showing the results of the same method as **FIG. 6A** except that selected muteins are incubated with 6xHis-tagged ("6xHis" disclosed as SEQ ID NO: 1028) recombinant CD25 extracellular domain, and bound CD25 detected with anti-6xHis antibody ("6xHis" disclosed as SEQ ID NO: 1028).

FIG. 7 provides a series of graphs depicting the affinity of IL-2-Fc fusion proteins comprising different IL-2 variants, as indicated, for CD122/CD132 Fc heterodimer and extracellular domain of CD25 measured on an Octet biolayer interferometry instrument. IL-2 variants contain V69A/Q74P plus the indicated mutations. IL-2-Fc fusion proteins were immobilized on anti-human Fc capture tips and then incubated with a concentration range of indicate IL-2 receptor. Association and dissociation phase kinetics used to estimate binding affinity. Excess amount of an irrelevant antibody was used to prevent non-specific binding or capture of the CD122/CD132 Fc protein by the tips.

FIG. 8 provides a schematic illustrating a gating strategy and corresponding flow cytometry data to identify IL-2-sensitive cell populations from human PBMCs. Singlet lymphocytes as identified based on forward and side scatter. Populations are defined as: T regulatory cells (CD4+CD25^{high}Foxp3+), CD25^{high} T helper cells (CD4+CD25^{high}Foxp3-) and natural killer cells (CD3-CD56+).

FIGs. 9A-9D provide graphs depicting the IL-2 signaling response in IL-2-sensitive cells populations (**FIG. 9A**, Tregs; **FIG. 9B**, CD25+(high) T helper cells; **FIG. 9C**, NK cells; **FIG. 9D** CD8+ cytotoxic T cells) within human PBMCs after treatment with IL-2-Fc fusions containing mutations that reduce affinity for CD122/CD132 dimer, as determined by the extent of STAT5 phosphorylation. Cells were treated at indicated concentrations for 30 minutes with IL-2-Fc fusion protein containing V69A/Q74 mutations plus the indicated mutations, or with IL-2 N88D mutein fused to the C-terminus of a non-binding antibody (C-term N88D). Inactive IL-2-Fc fusion protein contains several mutations to reduce its IL-2 signaling activity (F42A, Y45A, L72G, N88D, V69A, Q74P). After treatment, cells were fixed with formaldehyde, permeabilized with cold methanol and stained for surface markers and for STAT5 transcription factor phosphorylated at Tyr694 (pSTAT5). Each population is identified based on gating as described in **FIG. 8**. Selected muteins were also evaluated for signaling activity on CD8+ cytotoxic T cells. These cells were gated as in **FIG. 8**, except using the CD8 surface marker in place of CD4. Median pSTAT5 level (median fluorescent

intensity, MFI) is shown for each concentration of IL-2-Fc fusion protein tested in each cell population. Curve fitting performed using GraphPad Prism v5.03 with 4-parameter fit for log(agonist) vs response.

FIGs. 10A-10C provide graphs depicting the IL-2 signaling response in IL-2-sensitive cells populations (**FIG. 10A**, Tregs; **FIG. 10B**, CD25+(high) T helper cells; **FIG. 10C**, NK cells) within human PBMCs after treatment with IL-2-Fc fusions containing mutations that reduce affinity for CD25. Human PBMCs were treated and analyzed as in **FIG. 9**. Median pSTAT5 level (MFI) is shown for each treatment in each population. To highlight the effect on EC₅₀, signaling within each mutein was normalized from 0 to 1 across the concentration range of IL-2-Fc treatment.

FIGs. 11A-11C provide graphs depicting the IL-2 signaling response in IL-2-sensitive cells populations (**FIG. 11A**, Tregs; **FIG. 11B**, CD25+(high) T helper cells; **FIG. 11C**, NK cells) within human PBMCs after treatment with IL-2-Fc fusions containing paired mutations that reduce affinity for CD25 and CD122/CD132 dimer. Human PBMCs were treated and analyzed as in **FIG. 9**. IL-2-Fc fusion proteins comprising various IL-2 muteins are divided across top and bottom panels for clarity, as indicated. Median pSTAT5 level (MFI) is shown for each treatment in each population.

FIGs. 12A-12C provide graphs illustrating the expansion of Tregs *in vivo*, measured as a percentage of total CD3+ T cells, in Tg32 mice treated with IL-2-Fc H16N (**FIG. 12A**) or C-term N88D (**FIG. 12B**). Homozygous Tg32 mice were dosed by tail vein injection with the indicated amount of each IL-2 Fc fusion protein (dose levels are approximately equimolar). At the indicated time-point the lymphocyte populations were profiled, with Tregs defined as CD45+CD3+CD4+CD25^{high}CD127⁻ cells. Data in **FIG. 12A** and **FIG. 12B** is average of three mice per treatment group. **FIG. 12C** shows data from individual mice at the highest dose of each IL-2-Fc fusion protein tested.

FIGs. 13A-13C provide graphs illustrating a change in the level of CD4+ T helper cells, measured as a percentage of total CD3+ T cells, in Tg32 mice treated with IL-2-Fc H16N (**FIG. 13A**) or C-term N88D (**FIG. 13B**). Mice were dosed as in **FIG. 12**. CD4+ T helper cells were defined as CD45+CD3+CD4+ cells not CD25^{high}CD127⁻. Data in **FIG. 13A** and **FIG. 13B** is average of three mice per treatment group. **FIG. 13C** shows data from individual mice at the highest dose of each IL-2-Fc fusion protein tested.

FIGs. 14A-14C provide graphs illustrating the change in the level of CD8+ cytotoxic T cells, measured as a percentage of total CD3+ T cells, in Tg32 mice treated with IL-2-Fc H16N (**FIG. 14A**) or C-term N88D (**FIG. 14B**). Mice were dosed as in **FIG. 12**. Cytotoxic T cells were defined as CD45+CD3+CD8+ cells. Data in **FIG. 14A** and **FIG. 14B** is average of three mice per treatment group. **FIG. 14C** shows data from individual mice at the highest dose of each IL-2-Fc fusion protein tested.

FIGs. 15A-15C provide graphs illustrating the change in the level of NK cells, measured as a percentage of total CD45+ lymphocytes, in Tg32 mice treated with IL-2-Fc H16N (**FIG. 15A**) or C-

term N88D (**FIG. 15B**). Mice were dosed as in **FIG. 12**. NK cells were defined CD45+CD3-CD56+ cells. Data in **FIG. 15A** and **FIG. 15B** is average of three mice per treatment group. In each case the percentage NK cells is normalized within each mouse so that the pre-treatment value is 1. **FIG. 15C** shows data from individual mice at the highest dose of each IL-2-Fc fusion protein tested.

5 **FIGs. 16A-16B** provide graphs illustrating the binding kinetics of CD122/CD132 Fc heterodimer or CD25 extracellular domain at a range of concentrations to IL-2-Fc fusion proteins containing only V69A/Q74P mutations (wild-type; **FIG. 16A**) or inactivating mutations (42A, Y45A, L72G, N88D, V69A, Q74P; inactive; **FIG. 16B**) anchored to an anti-human Fc Octet tip. Binding kinetics were used to estimate the K_D of each interaction.

10 **FIGs 17A-17D** provides graphs illustrating the clearance kinetics of IL-2 Fc fusion proteins in mice. Plasma was collected from mice treated as in **FIG. 12** with various doses, as indicated, of IL-2-Fc fusion protein containing V69A/Q74P/H16N mutations or C-term N88D (**FIGs. 17A-17B**) or IL-2-Fc fusion protein containing inactivating mutations (42A, Y45A, L72G, N88D, V69A, Q74P; inactive; **FIGs. 17C-17D**). The amount of IL-2-Fc or C-term N88D present at each time-point was measured using an ELISA assay with anti-IL-2 capture antibody (R&D Systems, AF-202) and anti-human Fc secondary antibody conjugated to horseradish peroxidase (Jackson ImmunoResearch 109-035-008). 100% of starting material was defined as the amount detectable in blood plasma 1 hour after injection. Note that the x-axis is categorical, not scaled by time.

FIGs. 18A-18D depict expansion of immune cells *in vivo* following dosing with exemplary IL-2 Fc fusion proteins in humanized mice. **FIG. 18A** presents a schematic of the experimental design showing the various timepoints at which blood was drawn from the humanized mice dosed with the IL-2 Fc fusion polypeptides and control polypeptides. Flow cytometry was used to measure the various lymphocyte populations at each of the indicated timepoints. **FIG. 18B** presents the fold-expansion of T regulatory cells on the Y axis for each IL-2 Fc fusion polypeptide and its corresponding dose (low or high) depicted on the X axis. **FIG. 18C** presents the fold-expansion of T helper cells on the Y axis for each IL-2 Fc fusion polypeptide and its corresponding dose (low or high) depicted on the X axis. **FIG. 18D** presents the fold-expansion of NK cells on the Y axis for each IL-2 Fc fusion polypeptide and its corresponding dose (low or high) depicted on the X axis. The IL-2 Fc fusion polypeptides investigated, as depicted from left to right on the X axis of **FIGs. 18B-18D**, are as follows: the control monoclonal antibody (Motavizumab), inactive IL-2, the IL-2 mutein comprising the N88D mutation, wild type IL-2, IL-2 mutein comprising the mutations H16N/V69A/Q74P/C125S (SEQ ID NO: 1007), and IL-2 mutein comprising the mutations H16L/V69A/Q74P/C125S (SEQ ID NO:1008).

FIGs. 19A-19B depict the persistence and effective half-life of exemplary IL-2 fusion proteins in Tg32 mice. **FIG. 19A** presents the concentration of the IL-2 fusion proteins with the indicated combinations of mutations in the blood of mice on the Y axis over the days sampled post-dosing on the X axis. **FIG. 19B** presents a comparison of the half-life of an IL-2 fusion protein with

the indicated combination of mutations in the IL-2 moiety with or without an additional mutation in the Fc region. The concentration of the indicated IL-2 fusion protein in the blood is presented on the Y axis over the days post-dosing on the X axis.

FIG. 20 depicts the pharmacokinetic profile of an exemplary IL-2-Fc fusion protein (comprising the mutations H16L/V69A/Q74P/C125S (SEQ ID NO:1008) (IL2-118 fused to IgG1 Fc N297G allotype m3)) in cynomolgus monkeys. Serum levels of the IL-2-Fc fusion protein were measured over time in four monkeys (numbered 3501, 3502, 3503, and 3504), following four weekly injections of 100 µg/kg of the IL-2-Fc fusion protein.

FIGs. 21A-21B depict the effects of an exemplary IL-2-Fc fusion protein (comprising the mutations H16L/V69A/Q74P/C125S (SEQ ID NO:1008) (IL2-118 fused to IgG1 Fc N297G allotype m3)) on expansion and proliferation of T regulatory cells in cynomolgus monkeys. **FIG. 21A** presents the expansion of T regulatory cells expressed as fold change to baseline (baseline= pre-dose) over time, following four weekly injections of 100 µg/kg of the IL-2-Fc fusion protein. **FIG. 21B** presents the percentage of Ki67⁺ T regulatory cells (measure of proliferating T regulatory cells) normalized to total T regulatory cells over time, following four weekly injections of 100 µg/kg of the IL-2-Fc fusion protein.

FIGs. 22A-22D depict the effects of an exemplary IL-2-Fc fusion protein (comprising the mutations H16L/V69A/Q74P/C125S (SEQ ID NO:1008) (IL2-118 fused to IgG1 Fc N297G allotype m3)) on circulating immune cells in cynomolgus monkeys following four weekly injections of 100 µg/kg of the IL-2-Fc fusion protein. **FIG. 22A** presents the effects of the IL-2-Fc fusion protein on the number of NK cells over time, **FIG. 22B** presents the effects on cytotoxic T cells over time, **FIG. 22C** presents the effects on T helper cells over time, and **FIG. 22D** presents the effects on total T cells over time. Data are shown as fold-change to baseline (baseline= pre-dose) for each cell type.

FIGs. 23A-23C depict the effects of an exemplary IL-2-Fc fusion protein described herein on disease progression in a murine model of systemic lupus erythematosus with kidney involvement similar to lupus nephritis. **FIG. 23A** presents the proteinuria score as measured weekly in mice following treatment with 40 µg/kg of the exemplary IL-2-Fc fusion protein or the PBS vehicle control, which were administered every 3 days starting at 3 weeks of age and continuing until 18 weeks of age. The proteinuria score is shown on the Y-axis and the age of the mice in weeks is shown on the X-axis. **FIG. 23B** presents a series of graphs depicting the proteinuria score on the Y-axis in individual mice treated with the vehicle control or exemplary IL-2-Fc fusion protein, as shown on the X-axis. From left to right, the first panel depicts the proteinuria scores at 11 weeks of age, the center panel depicts the scores at 12 weeks of age, and the final panel depicts the scores at 13 weeks of age. **FIG. 23C** presents the glomerular lesions quantified on the Y-axis, at the end of the study (when mice reached 18 weeks of age) in individual mice treated with the vehicle control or exemplary IL-2-Fc fusion protein, as shown on the X-axis.

DETAILED DESCRIPTION

Disclosed herein are IL-2 agents (*e.g.*, IL-2 variants, IL-2 fusion proteins, IL-2 complexes, or IL-2 conjugates) that have one or more structural and/or functional properties described herein.

Advantageously, several of the IL-2 agents describe herein have one or more improved or desired properties, compared to an IL-2 agent comprising a wild-type IL-2. Without wishing to be bound by theory, it is believed that in an embodiment, the IL-2 agents described herein selectively enhance regulatory T cell (Treg) activity through the IL-2 pathway. Nucleic acid molecules encoding the IL-2 agents, expression vectors, host cells, compositions (*e.g.*, pharmaceutical compositions), kits, containers, and methods for making the IL-2 agents, are also provided. The IL-2 agents and pharmaceutical compositions disclosed herein can be used (alone or in combination with other agents or therapeutic modalities) to treat, prevent, and/or diagnose disorders and conditions, *e.g.*, disorders and conditions associated with T cell activity, *e.g.*, a disorder or condition described herein (*e.g.*, an autoimmune disorder described herein).

Immune response is typically controlled by recognition of specific foreign or self-antigens, communication between innate and adaptive immune pathways, crosstalk between B cells and T cells, and other factors. Some autoimmune diseases can be characterized by broad recognition of self-antigens. These diseases can be treated by therapies that broadly enhance the processes that protect self-antigens from attack by the immune system. Tregs are a type of T cell that recognizes self-antigens. In response to antigen stimulation they release immuno-suppressive cytokines and directly inhibit other T cells through cell-cell contacts. Impaired Treg activity contributes to a wide range of autoimmune disorders (*e.g.*, too few cells, or cells that are less active). IL-2 is a cytokine that causes expansion and activation of many cell types, but Tregs are typically far more sensitive to IL-2 than are other cell types. Low dose IL-2 administration was shown to be associated with preferential, sustained Treg cell expansion *in vivo* and amelioration of the manifestations of chronic graft-vs-host disease (GVHD) in a substantial proportion of patients (Koreth *et al.*, *N Engl J Med.* 2011; 365(22): 2055-2066). In an embodiment, the IL-2 agents described herein provide a long-lived immunomodulator (*e.g.*, immunosuppressant) for a number of disorders (*e.g.*, autoimmune indications).

The present disclosure is based, at least in part, on the discovery that IL-2 agents comprising a human IL-2 polypeptide with specific combinations of amino acid substitutions described herein can have advantageous technical effects, *e.g.*, increasing the stability of the IL-2 agent and/or providing the selective activation of regulatory T cells. The IL-2 agents described herein typically requires CD25 for efficient signaling through IL-2 receptors, making it highly selective for Tregs. IL-2 signaling promotes Treg suppressor functions and drives proliferation. Without wishing to be bound by theory, it is believed that Tregs activated by the IL-2 agents described herein can dampen autoimmune activity through varied mechanisms.

In an embodiment, the IL-2 agents described herein were found to selectively bind to and activate regulatory T cells with a concomitant lack of effect on other immune cell types (*e.g.*, CD25^{high} T cells and NK cells). Without wishing to be bound by theory, it is believed that in an embodiment, the amino acid substitutions described herein both promote the ability of the IL-2 agent to maintain an active conformation and modulate the binding affinity of the IL-2 agent for the dimeric receptor comprising IL-2R β (CD122) and IL-2R γ (CD132), and the trimeric receptor comprising IL-2R α (CD25) along with CD122 and CD132. In an embodiment, the IL-2 agents described herein have an affinity that is optimal for selectively binding to and activating IL-2 signaling in regulatory T cells, resulting in selective regulatory T cell activation and expansion both *in vitro* and *in vivo*. Without wishing to be bound by theory, it is believed that in an embodiment, binding of IL-2 to IL-2 receptors is a major route of clearance of IL-2 *in vivo*. For example, the IL-2 agents described herein, having a reduced affinity for dimeric and trimeric IL-2 receptors showed an extended half-life, indicating that lowering the affinity for IL-2 receptors decreases the clearance of the IL-2 agent *in vivo*. The IL-2 agents described herein, such as those having amino acid substitutions that increase stability and a reduce affinity for IL-2 receptors, can selectively activate regulatory T cells and exhibit an increased in half-life *in vivo*. The IL-2 agents described herein, such as those having mutations that prevent CD25 binding, can have improved half-life *in vivo*. In an embodiment, the IL-2 agent does not promote, or does not substantially promote, expansion, activation, survival, and/or proliferation of T effector cells and/or NK cells *in vitro* and/or *in vivo*. Without wishing to be bound by theory, it is believed that in an embodiment, the IL-2 agents described herein can have larger therapeutic window than low dose IL-2.

There are various technical effects associated with the presence of the particular sets of mutations described herein, for example, a set of mutations comprising an amino acid substitution at position H16, in combination with amino acid substitutions at positions V69, Q74, and C125 (*e.g.*, H16L, V69A, Q74P, and C125S). Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 agent (*e.g.*, IL-2 variant or IL-2 fusion protein) comprising H16L, V69A, Q74P, and C125S is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations. For example, it was unexpectedly discovered that the V69A and Q74P substitutions do not substantially increase (or essentially reduce) the binding affinity of the IL-2 agent for CD25, but rather stabilize the IL-2 agent in an active conformation sufficient for binding to CD25. Without wishing to be bound by theory, it is also believed that in an embodiment, an IL-2 agent comprising the aforesaid mutations has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types. Therefore, an IL-2 agent comprising these mutations is typically stable and selectively activates regulatory T cells (Treg). Without wishing to be bound by theory, it is further believed that in an embodiment, an IL-2 agent comprising the aforesaid mutations has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent. Without

wishing to be bound by theory, it is also believed that in an embodiment, an IL-2 agent comprising these mutations does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 agent comprising the aforesaid mutations particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 agent (*e.g.*, IL-2 variant or IL-2 fusion protein) comprising an amino acid substitution at position H16 in combination with amino acid substitutions at positions V69, Q74, and C125 (*e.g.*, H16L, V69A, Q74P, and C125S), has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 agent that does not comprise the amino acid substitutions:

(i) enhanced or increased stability *in vitro* or *in vivo*;

(ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*;

(iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*;

(iv) reduced or decreased affinity of the IL-2 agent for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*;

(v) reduced or decreased (*e.g.*, moderately reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*;

(vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells);

(vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or

(viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

Definitions

As used herein, the articles “a” and “an” refer to one or to more than one (*e.g.*, to at least one) of the grammatical object of the article.

The term “or” is used herein to mean, and is used interchangeably with, the term “and/or”, unless context clearly indicates otherwise.

“About” and “approximately” shall generally mean an acceptable degree of error for the quantity measured given the nature or precision of the measurements. Exemplary degrees of error are within 20 percent (%), typically, within 10%, and more typically, within 5% of a given value or range

of values. When “about” or “approximately” is present before a series of numbers or a range, it is understood that “about” or “approximately” can modify each of the numbers in the series or range. Similarly, when “at least,” “more than,” “no more than,” “less than,” “no less than,” or “within” is present before a series of numbers or a range, it is understood that “at least,” “more than,” “no more than,” “less than,” “no less than,” or “within” can modify each of the numbers in the series or range. As used herein, ranges include both the upper and lower limit.

The compositions and methods disclosed herein encompass polypeptides and nucleic acids having the sequences specified, or sequences substantially identical or similar thereto, *e.g.*, sequences at least 85%, 90%, 95% identical or higher to the sequence specified.

In the context of an amino acid sequence, the term “substantially identical” is used herein to refer to a first amino acid that contains a sufficient or minimum number of amino acid residues that are i) identical to, or ii) conservative substitutions of aligned amino acid residues in a second amino acid sequence such that the first and second amino acid sequences can have a common structural domain and/or common functional activity. For example, amino acid sequences that contain a common structural domain having at least about 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% identity to a reference sequence, *e.g.*, a sequence provided herein.

In the context of nucleotide sequence, the term “substantially identical” is used herein to refer to a first nucleic acid sequence that contains a sufficient or minimum number of nucleotides that are identical to aligned nucleotides in a second nucleic acid sequence such that the first and second nucleotide sequences encode a polypeptide having common functional activity, or encode a common structural polypeptide domain or a common functional polypeptide activity. For example, nucleotide sequences having at least about 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% or 99% identity to a reference sequence, *e.g.*, a sequence provided herein.

The term “functional variant” refers polypeptides that have a substantially identical amino acid sequence to the naturally-occurring sequence, or are encoded by a substantially identical nucleotide sequence, and are capable of having one or more activities of the naturally-occurring sequence.

Calculations of homology or sequence identity between sequences (the terms are used interchangeably herein) are performed as follows.

To determine the percent identity of two amino acid sequences, or of two nucleic acid sequences, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in one or both of a first and a second amino acid or nucleic acid sequence for optimal alignment and non-homologous sequences can be disregarded for comparison purposes). In a typical embodiment, the length of a reference sequence aligned for comparison purposes is at least 30%, *e.g.*, at least 40%, 50%, 60%, *e.g.*, at least 70%, 80%, 90%, 100% of the length of the reference sequence. The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or

nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position.

The percent identity between the two sequences is a function of the number of identical positions shared by the sequences, taking into account the number of gaps, and the length of each gap, which need to be introduced for optimal alignment of the two sequences.

The comparison of sequences and determination of percent identity between two sequences can be accomplished using a mathematical algorithm. In an embodiment, the percent identity between two amino acid sequences is determined using the Needleman and Wunsch ((1970) *J. Mol. Biol.* 48:444-453) algorithm which has been incorporated into the GAP program in the GCG software package (available at www.gcg.com), using either a Blossum 62 matrix or a PAM250 matrix, and a gap weight of 16, 14, 12, 10, 8, 6, or 4 and a length weight of 1, 2, 3, 4, 5, or 6. In certain embodiments, the percent identity between two nucleotide sequences is determined using the GAP program in the GCG software package (available at www.gcg.com), using a NWSgapdna.CMP matrix and a gap weight of 40, 50, 60, 70, or 80 and a length weight of 1, 2, 3, 4, 5, or 6. One suitable set of parameters (and the one that should be used unless otherwise specified) are a Blossum 62 scoring matrix with a gap penalty of 12, a gap extend penalty of 4, and a frameshift gap penalty of 5.

The percent identity between two amino acid or nucleotide sequences can be determined using the algorithm of E. Meyers and W. Miller ((1989) *CABIOS*, 4:11-17) which has been incorporated into the ALIGN program (version 2.0), using a PAM120 weight residue table, a gap length penalty of 12 and a gap penalty of 4.

The nucleic acid and protein sequences described herein can be used as a “query sequence” to perform a search against public databases to, for example, identify other family members or related sequences. Such searches can be performed using the NBLAST and XBLAST programs (version 2.0) of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-10. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid as described herein. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to protein molecules described herein. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.*, (1997) *Nucleic Acids Res.* 25:3389-3402. When utilizing BLAST and gapped BLAST programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See www.ncbi.nlm.nih.gov.

As used herein, the term “hybridizes under low stringency, medium stringency, high stringency, or very high stringency conditions” describes conditions for hybridization and washing. Guidance for performing hybridization reactions can be found in *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989), 6.3.1-6.3.6, which is incorporated by reference. Aqueous and nonaqueous methods are described in that reference and either can be used. Specific hybridization conditions referred to herein are as follows: 1) low stringency hybridization conditions

in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by two washes in 0.2X SSC, 0.1% SDS at least at 50°C (the temperature of the washes can be increased to 55°C for low stringency conditions); 2) medium stringency hybridization conditions in 6X SSC at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 60°C; 3) high stringency hybridization conditions in 5 6X SSC at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C; and preferably 4) very high stringency hybridization conditions are 0.5M sodium phosphate, 7% SDS at 65°C, followed by one or more washes at 0.2X SSC, 1% SDS at 65°C. Very high stringency conditions 4) are suitable conditions and the ones that should be used unless otherwise specified.

It is understood that the molecules described herein may have additional conservative or non-essential amino acid substitutions, which do not have a substantial effect on their functions. 10

The term “amino acid” is intended to embrace all molecules, whether natural or synthetic, which include both an amino functionality and an acid functionality and capable of being included in a polymer of naturally-occurring amino acids. Exemplary amino acids include naturally-occurring amino acids; analogs, derivatives and congeners thereof; amino acid analogs having variant side 15 chains; and all stereoisomers of any of any of the foregoing. As used herein the term “amino acid” includes both the D- or L- optical isomers and peptidomimetics.

A “conservative amino acid substitution” is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side 20 chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), nonpolar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine).

The terms “polypeptide,” “peptide” and “protein” (if single chain) are used interchangeably 25 herein to refer to polymers of amino acids of any length. The polymer may be linear or branched, it may comprise modified amino acids, and it may be interrupted by non-amino acids. The terms also encompass an amino acid polymer that has been modified; for example, disulfide bond formation, glycosylation, lipidation, acetylation, phosphorylation, or any other manipulation, such as conjugation 30 with a labeling component. The polypeptide can be isolated from natural sources, can be a produced by recombinant techniques from a eukaryotic or prokaryotic host, or can be a product of synthetic procedures.

As recognized by those skilled in the art, protein fragments, functional protein domains, and homologous proteins are also considered to be within the scope of this invention. For example, 35 provided herein is any protein fragment of a reference protein (meaning a polypeptide sequence at least one amino acid residue shorter than a reference polypeptide sequence but otherwise identical) 5,

10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, or greater than 100 amino acids in length. In another example, any protein that includes a stretch of about 20, about 30, about 40, about 50, or about 100 amino acids which are about 40%, about 50%, about 60%, about 70%, about 80%, about 90%, about 95%, about 98%, or about 100% identical to any of the sequences described herein can be
5 utilized in accordance with the invention. In an embodiment, a protein sequence to be utilized in accordance with the disclosure includes 2, 3, 4, 5, 6, 7, 8, 9, 10, or more mutations as shown in any of the sequences provided or referenced herein.

The terms “nucleic acid,” “nucleic acid sequence,” “nucleotide sequence,” or “polynucleotide sequence,” and “polynucleotide” are used interchangeably. They refer to a polymeric form of
10 nucleotides of any length, either deoxyribonucleotides or ribonucleotides, or analogs thereof. The polynucleotide may be either single-stranded or double-stranded, and if single-stranded may be the coding strand or non-coding (antisense) strand. A polynucleotide may comprise modified nucleotides, such as methylated nucleotides and nucleotide analogs. The sequence of nucleotides may be interrupted by non-nucleotide components. A polynucleotide may be further modified after
15 polymerization, such as by conjugation with a labeling component. The nucleic acid may be a recombinant polynucleotide, or a polynucleotide of genomic, cDNA, semisynthetic, or synthetic origin which either does not occur in nature or is linked to another polynucleotide in a non-natural arrangement.

The term “isolated,” as used herein, refers to material that is removed from its original or
20 native environment (*e.g.*, the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide or polypeptide present in a living animal is not isolated, but the same polynucleotide or polypeptide, separated by human intervention from some or all of the co-existing materials in the natural system, is isolated. Such polynucleotides could be part of a vector and/or such polynucleotides or polypeptides could be part of a composition, and still be isolated in
25 that such vector or composition is not part of the environment in which it is found in nature.

As used herein, the term “treat,” a disorder, *e.g.*, a myeloma, means that a subject (*e.g.*, a human) who has a disorder, *e.g.*, a myeloma, and/or experiences a symptom of a disorder, *e.g.*, a myeloma, will, in an embodiment, suffer less a severe symptom and/or recover faster when an antibody molecule is administered than if the antibody molecule were never administered. In an
30 embodiment, when a myeloma is treated, a bone marrow biopsy will show fewer clonal plasma cells, after effective treatment for myeloma. For example, a diagnostic assay will detect fewer clonal plasma cells in a biological sample of a subject after administration of an antibody molecule described herein for the effective treatment of a myeloma. Other assays, urine tests, or blood tests, can also be used to monitor treatment in a patient, or to detect the presence, *e.g.*, decreased presence (or absence),
35 of a symptom of a myeloma, after treatment of a myeloma in the subject. In an embodiment, when a myeloma is treated, the level of β 2 microglobulin (β 2M) in serum or urine will be decreased, after effective treatment for myeloma. Treatment can, *e.g.*, partially or completely, alleviate, ameliorate,

relieve, inhibit, or reduce the severity of, and/or reduce incidence, and optionally, delay onset of, one or more manifestations of the effects or symptoms, features, and/or causes of a disorder, *e.g.*, a myeloma. In an embodiment, treatment is of a subject who does not exhibit certain signs of a disorder, *e.g.*, a myeloma, and/or of a subject who exhibits only early signs of a disorder, *e.g.*, nephropathy. In an embodiment, treatment is of a subject who exhibits one or more established signs of a disorder, *e.g.*, a myeloma. In an embodiment, treatment is of a subject diagnosed as suffering from a disorder, *e.g.*, a myeloma.

As used herein, the term “prevent,” a disorder, *e.g.*, a myeloma, means that a subject (*e.g.*, a human) is less likely to have the disorder, *e.g.*, a myeloma, if the subject receives the antibody molecule.

Various aspects of the compositions and methods herein are described in further detail below. Additional definitions are set out throughout the specification.

IL-2 Agents

The present disclosure provides IL-2 agents, including, but not limited to, IL-2 variants, IL-2 fusion proteins, IL-2 complexes, and IL-2 conjugates. For example, the IL-2 agents described herein can have one or more structural and/or functional properties described herein. In an embodiment, the IL-2 agent comprises an IL-2 variant comprising one or more amino acid alterations (*e.g.*, substitutions) described herein. In an embodiment, the IL-2 agent comprises an IL-2 variant comprising one or more amino acid alterations (*e.g.*, substitutions) described in **Table 9**. In an embodiment, the IL-2 agent comprises an IL-2 variant comprising an amino acid sequence described in **Table 9**, or a portion thereof. In an embodiment, the IL-2 agent, or a portion thereof, is encoded by a nucleic acid comprising a nucleotide sequence described herein, *e.g.*, in **Table 10**. The one or more amino acid alterations (*e.g.*, substitutions), alone or in combination, may confer one or more desired biological properties described herein. In an embodiment, the IL-2 agent can modulate (*e.g.* increase) Treg proliferation, survival, activation and/or function. In an embodiment, the modulation is selective or specific for the Tregs. For example, the IL-2 agent is capable of modulating the activity in Tregs but has limited or lacks the ability to promote the activity in non-regulatory T cells. In an embodiment, the IL-2 agent comprises a polypeptide (sometime referred to herein as “IL-2 polypeptide agent”).

IL-2 Variants

In an embodiment, the IL-2 agent comprises an IL-2 variant, *e.g.*, an IL-2 variant described herein.

In an embodiment, the IL-2 variant comprises an IL-2 polypeptide (*e.g.*, a human IL-2 polypeptide) described herein, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises one or more amino acid alterations (*e.g.*, substitutions) described in **Table 9**. In an

embodiment, the IL-2 variant comprises, or consists of, an amino acid sequence described in **Table 9**, or a functional fragment thereof. In an embodiment, the IL-2 variant is encoded by a nucleic acid comprising a nucleotide sequence described herein, *e.g.*, in **Table 10**.

Without wishing to be bound by theory, it is believed that in an embodiment, the IL-2 variants
 5 described herein, which have reduced human CD25 and/or reduced human CD122/CD132 binding affinity relative to a wild-type human IL-2 or a reference IL-2 variant, can have improved potency and/or selectivity for binding to and activating regulatory T cells (Tregs) than wild type IL-2 or other IL-2 variants. The IL-2 variants described herein can be identified, *e.g.*, by screening a library of mutated IL-2 polypeptides to identify IL-2 variants having a binding affinity for human CD25 and/or
 10 human CD122/CD132 in a desired range.

In an embodiment, the IL-2 variant has one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or more) properties described herein, *e.g.*, different and/or improved properties, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant comprises one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) amino acid alterations (*e.g.*, substitutions) that provide different and/or
 15 improved properties, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or all) of the following different and/or improved properties (*e.g.*, as determined by an assay described herein), relative to a wild-type IL-2 or a reference IL-2 variant:

- i) altered (*e.g.*, enhanced or increased) expression *in vitro* and/or *in vivo*;
- 20 ii) altered (*e.g.*, reduced or decreased) aggregation *in vitro* and/or *in vivo*;
- iii) altered (*e.g.*, enhanced or increased) stability *in vitro* and/or *in vivo*;
- iv) altered (*e.g.*, enhanced or increased) half-life *in vitro* and/or *in vivo*;
- v) altered (*e.g.*, reduced or decreased) turnover and/or clearance *in vivo*;
- vi) altered (*e.g.*, reduced or decreased) susceptibility to proteolysis *in vitro* and/or *in vivo*;
- 25 vii) altered (*e.g.*, enhanced or increased) resistance to proteolysis *in vitro* and/or *in vivo*;
- viii) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*;
- ix) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*;
- 30 x) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for the dimeric IL-2 receptor comprising human CD122 and human CD132 *in vitro* and/or *in vivo*;
- xi) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) binding to Tregs *in vitro* and/or *in vivo*;
- xii) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) activation of the
 35 IL-2 signaling pathway in Tregs *in vitro* and/or *in vivo*;
- xiii) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) ability to induce or promote Treg expansion, activity, survival, and/or proliferation *in vitro* and/or *in vivo*.

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced or increased) expression *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased expression (*e.g.*, in a bacterial or mammalian cell) relative to a wild-type IL-2. In an embodiment, the IL-2 variant has enhanced or increased expression (*e.g.*, in bacterial or mammalian cell) relative to a reference IL-2 variant. In an embodiment, the expression of the IL-2 variant is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the expression of the IL-2 variant is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 variant expresses at a higher or increased level *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by an assay of protein concentration. In an embodiment, the IL-2 variant expresses at a higher or increased level, *e.g.*, increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by an assay of protein concentration.

In an embodiment, the IL-2 variant has altered (*e.g.*, reduced or decreased) aggregation *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased aggregation relative to a wild type IL-2. In an embodiment, the IL-2 variant has reduced or decreased aggregation relative to a reference IL-2 variant. In an embodiment, the aggregation of the IL-2 variant is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the aggregation of the IL-2 variant is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, an IL-2 agent comprising an IL-2 variant described herein aggregates at lower or decreased level *in vitro* and/or *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-exclusion chromatography. In an embodiment, an IL-2 agent comprising an IL-2 variant described herein aggregates at lower or decreased level, *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-

fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-
5 exclusion chromatography.

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced or increased) stability *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased stability relative to a wild-type IL-2. In an embodiment, the IL-2 variant has enhanced or increased stability relative to a reference IL-2 variant. In an embodiment, the
10 stability of the IL-2 variant is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the stability of the IL-2 variant is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, an IL-2 agent comprising an IL-variant described herein has enhanced or increased stability *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%,
15 about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-
20 fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by yeast surface display, circular dichroism or related spectroscopic techniques, and/or melting temperature analysis (*e.g.*, using fluorimetry).

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced or increased) half-life *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased half-life relative to a wild-type IL-2. In an embodiment, the IL-2 variant has enhanced or increased half-life relative to a reference IL-2 variant. In an embodiment, the
25 half-life of the IL-2 variant is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the half-life of the IL-2 variant is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, an IL-2 agent comprising an IL-2 variant described herein has enhanced or increased half-life *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%,
30 about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, greater than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-
35

fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

In an embodiment, the IL-2 variant has altered (*e.g.*, reduced or decreased) turnover *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased turnover relative to a wild-type IL-2. In an embodiment, the IL-2 variant has reduced or decreased turnover relative to a reference IL-2 variant. In an embodiment, the turnover of the IL-2 variant is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the turnover of the IL-2 variant is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, about 10-fold, or more. In an embodiment, an IL-2 agent comprising an IL-2 variant described herein has a lower, reduced or decreased rate or level of turnover and/or clearance *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

In an embodiment, the IL-2 has altered (*e.g.*, reduced or decreased) susceptibility to proteolysis *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased susceptibility to proteolysis relative to IL-2 (*e.g.*, wild type human IL-2). In an embodiment, the IL-2 variant has reduced or decreased susceptibility to proteolysis relative to a reference IL-2 variant. In an embodiment, the susceptibility to proteolysis of the IL-2 variant is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the susceptibility to proteolysis of the IL-2 variant is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced or increased) resistance to proteolysis *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased resistance to proteolysis relative to a wild-type IL-2. In an embodiment, the IL-2 variant has enhanced or increased resistance to proteolysis relative to a reference IL-2 variant. In an embodiment, the resistance to proteolysis of the IL-2 variant is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the resistance to proteolysis of the IL-2 variant is increased by

about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant has altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for human CD25 relative to a wild-type human IL-2). In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for human CD25 relative to a reference IL-2 variant. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for human CD25 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for human CD25 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, an IL-2 agent comprising an IL-2 variant described herein has reduced or decreased binding affinity for CD25 (*e.g.*, human CD25), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by yeast surface display, surface plasmon resonance (*e.g.* Biacore) and/or bio-layer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 variant binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 5-500 pM, *e.g.*, about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, or *e.g.*, about 10 to about 400 pM, about 20 to about 300 pM, about 50 to about 200 pM, about 100 to about 150 pM, about 5 to about 10 pM, *e.g.*, about 10 to about 20 pM, about 20 to about 30 pM, or about 30 to about 40 pM, *e.g.*, about 40 to about 50 pM, about 50 to about 60 pM, about 60 to about 70 pM, about 70 to about 80 pM, about 80 to about 90 pM, about 90 to about 100 pM, about 100 to about 110 pM, about 110 to about 120 pM, about 120 to about 130 pM, about 130 to about 140 pM about 140 to about 150 pM, about 150 to about 200 pM, about 200 to about 250 pM, about 250 to about 300 pM, about 300 to about 350 pM, about 350 to about 400 pM, about 400 to about 500 pM, or *e.g.*, greater than about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about

120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, *e.g.* as determined by yeast surface display, surface plasmon resonance (*e.g.* Biacore) and/or biolayer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 variant binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*,
5 with a dissociation constant (K_D) of about 0.1-10 nM, *e.g.*, about 0.1, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.5, about 2, about 2.5, about 3, about 3.5, about 4, about 4.5, about 5, about 6, about 7, about 8, about 9, or about 10 nM, or *e.g.*, about 0.2 to about 5 nM, about 0.5 to about 2 nM, about 1 to 1.5 nM, about 0.1 to about 0.2 nM, *e.g.*, about 0.2 to about 0.3 nM, about 0.3 to about 0.4 nM, or about 0.4 to about 0.5 nM, *e.g.*, about 0.5 to
10 about 0.6 nM, about 0.6 to about 0.7 nM, about 0.7 to about 0.8 nM, about 0.8 to about 0.9 nM, about 0.9 to about 1 nM, about 1 to about 1.5 nM, about 1.5 to about 2 nM, about 2.5 to about 3 nM, about 3.5 to about 4 nM, about 4 to about 4.5 nM, about 4.5 to about 5 nM, about 5 to about 6 nM, about 6 to about 7 nM, about 7 to about 8 nM, about 8 to about 9 nM, or about 9 to about 10 nM, or *e.g.*, greater than about 0.1, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about
15 0.9, about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, or about 10 nM, *e.g.*, as determined by surface plasmon resonance (*e.g.* Biacore) and/or bio-layer interferometry (*e.g.*, Octet binding).

In an embodiment, the IL-2 variant has altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a
20 reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for human CD132 relative to a wild-type IL-2. In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for human CD132 relative to a reference IL-2 variant. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for human CD132 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%,
25 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for human CD132 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant has altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human
30 CD132 *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human CD132 relative to a wild-type IL-2. In an embodiment, the IL-2 variant has reduced or decreased binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human CD132 relative to
35 a reference IL-2 variant. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for the human dimeric IL-2 receptor comprising human CD122 and human CD132 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about

100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 variant for the human dimeric IL-2 receptor comprising human CD122 and human CD132 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant has reduced or decreased binding affinity for
5 CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about
10 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined by yeast surface display, surface plasmon resonance (*e.g.* Biacore) and/or bio-layer interferometry (*e.g.* Octet binding).

15 In an embodiment, the IL-2 variant binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (KD) of about 0.2-20 nM, *e.g.*, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17,
20 about 18, or about 20 nM, or *e.g.*, about 0.5 to about 15 nM, about 1 to about 10 nM, about 2 to about 5 nM, about 0.2 to about 0.3 nM, about 0.3 to about 0.4 nM, about 0.4 to about 0.5 nM, about 0.5 to about 0.6 nM, about 0.6 to about 0.7 nM, about 0.7 to about 0.8 nM, about 0.8 to about 0.9 nM, about 0.9 to about 1 nM, about 1 to about 1.1 nM, about 1.1 to about 1.2 nM, about 1.2 to about 1.3 nM, about 1.3 to about 1.4 nM, about 1.4 to about 1.5 nM, about 1.5 to about 2 nM, about 2 to about 3 nM,
25 about 3 to about 4 nM, about 4 to about 5 nM, about 5 to about 6 nM, about 6 to about 7 nM, about 7 to about 8 nM, about 8 to about 9 nM, about 9 to about 10 nM, about 10 to about 11 nM, about 11 to about 12 nM, about 12 to about 13 nM, about 13 to about 14 nM, about 14 to about 15 nM, about 15 to about 16 nM, about 16 to about 17 nM, about 17 to about 18 nM, about 18 to about 19 nM, or about 19 to about 20 nM, or *e.g.*, greater than about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7,
30 about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, or about 20 nM, *e.g.*, as determined by yeast surface display.

In an embodiment, the IL-2 variant binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (KD) of about 0.2-
35 300 nM, *e.g.*, about 0.2 nM, about 0.5 nM, about 1 nM, about 2 nM, about 5 nM, about 10 nM, about 15 nM, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about

140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or about 300 nM, or *e.g.*, about 0.5 to about 15 nM, about 1 to about 10 nM, about 2 to about 5 nM, about 0.2 nM to about 0.5 nM, about 0.5 nM to about 1 nM, about 1 to about 2 nM, about 2 nM to about 5 nM, about 5 nM to about 10 nM, about 10 nM to about 15 nM, about 15 nM to about 20 nM, about 20 nM to about 25 nM, about 25 to about 30 nM, about 30 nM to about 40 nM, about 40 nM to about 50 nM, about 50 to about 60 nM, about 60 to about 70 nM, about 70 nM to about 80 nM, about 80 nM to about 90 nM, about 90 nM to about 100 nM, about 100 nM to about 110 nM, about 110 nM to about 120 nM, about 120 nM to about 130 nM, about 130 nM to about 140 nM, about 140 nM to about 150 nM, about 150 nM to about 160 nM, about 160 nM to about 170 nM, about 170 nM to about 180 nM, about 180 nM to about 190 nM, about 190 nM to about 200 nM, about 200 nM to about 210 nM, about 210 nM to about 220 nM, about 220 nM to about 230 nM, about 230 nM to about 240 nM, about 240 nM to about 250 nM, about 250 nM to about 260 nM, about 260 nM to about 270 nM, about 270 nM to about 280 nM, about 280 nM to about 290 nM, or about 290 nM to about 300 nM, or *e.g.*, greater than about 0.2, about 0.5, about 1, about 2, about 5, about 10, about 15, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or greater than about 300 nM, *e.g.*, as determined by surface plasmon resonance (*e.g.* Biacore) and/or biolayer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced, increased, and/or selective) binding to Tregs *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased binding to Tregs relative to a wild-type IL-2. In an embodiment, the IL-2 variant has selective binding to Tregs relative to IL-2 (*e.g.*, wild type human IL-2). In an embodiment, the IL-2 variant has enhanced or increased binding to Tregs relative to a reference IL-2 variant. In an embodiment, the IL-2 variant has selective binding to Tregs relative to a reference IL-2 variant. In an embodiment, the binding to Tregs is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding to Tregs is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced, increased, and/or selective) activation of the IL-2 signaling pathway in Tregs *in vitro* and/or *in vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased activation of the IL-2 signaling pathway in Tregs relative to a wild-type IL-2. In an embodiment, the IL-2 variant has selective activation of the IL-2 signaling pathway in Tregs relative to a wild-type IL-2. In an

embodiment, the IL-2 variant has enhanced or increased activation of the IL-2 signaling pathway in Tregs relative to a reference IL-2 variant. In an embodiment, the IL-2 variant has selective activation of the IL-2 signaling pathway in Tregs relative to a reference IL-2 variant. In an embodiment, the activation of the IL-2 signaling pathway in Tregs is increased by about 1%, 5%, 10%, 20%, 30%,
5 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the activation of the IL-2 signaling pathway in Tregs is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 variant selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an T helper EC50/Treg EC50 ratio greater than about 1, about 2,
10 about 3, about 4, about 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, or about 3000 or more relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry.

In an embodiment, the IL-2 variant selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an NK cell EC50/Treg EC50 ratio greater than *e.g.*, about 1, about 2,
15 about 3, about 4, about 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, or about 3000 or more, or *e.g.*, greater than 1
20 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40, greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to
25 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry.

In an embodiment, the IL-2 variant has altered (*e.g.*, enhanced, increased, and/or selective) ability to induce or promote Treg expansion, activity, survival, and/or proliferation *in vitro* and/or *in*
30 *vivo*, relative to a wild-type IL-2 or a reference IL-2 variant. In an embodiment, the IL-2 variant has enhanced or increased ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to a wild-type IL-2. In an embodiment, the IL-2 variant has selective ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to a wild-type IL-2. In an embodiment, the IL-2 variant has enhanced or increased ability to induce or promote Treg
35 expansion, activity, survival, and/or proliferation relative to a reference IL-2 variant. In an embodiment, the IL-2 variant has selective ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to a reference IL-2 variant. In an embodiment, the ability to

induce or promote Treg expansion, activity, survival, and/or proliferation is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the ability to induce or promote Treg expansion, activity, survival, and/or proliferation is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or
5 about 10-fold, or more.

In an embodiment, the IL-2 variant has enhanced or increased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is lower by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%,
10 about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*,
15 as determined flow cytometry.

In an embodiment, the IL-2 variant has reduced or decreased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is higher by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%,
20 about 80%, about 85%, about 90%, about 95%, or about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, about 50-fold, about 100-fold, about 200-fold, about 500-fold, about 1000-fold, about 2000-fold, about 5000-fold, about
25 10,000, about 15,000-fold, or about 20,000-fold or more *e.g.*, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant *e.g.*, as determined flow cytometry.

In an embodiment, the T helper cell described herein is a CD45+CD3+CD4+Foxp3- cell, *e.g.*, determined by flow cytometry. In an embodiment, the Treg described herein is
30 CD45+CD3+CD4+Foxp3+ cell, *e.g.*, determined by flow cytometry. In an embodiment, the NK cell described herein is a CD45+CD3- cell that is CD56+ and/or CD16+, *e.g.*, determined by flow cytometry. In an embodiment, the NK cell described herein is a CD45+CD3-CD56+ cell, *e.g.*, determined by flow cytometry.

In an embodiment, the IL-2 variant has one or more of the same, or substantially the same,
35 structural and/or functional properties, as a wild-type IL-2 or a reference IL-2 variant.

In an embodiment, the reference IL-2 variant comprises an amino acid sequence that has about 75%, 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence

identity to an IL-2 variant described herein. In an embodiment, the reference IL-2 variant comprises the amino acid sequence of SEQ ID NO: 1 (IL-2 C125S). In an embodiment, the IL-2 variant comprises an amino acid sequence that is at least 80%, 85%, 90%, 95%, or 98% identical to the amino acid sequence of SEQ ID NO: 1 and comprises one or more (2, 3, 4, 5, 6, 7, 8, 9, 10, or more) amino acid alterations (*e.g.*, substitutions) described herein.

For purposes of this disclosure, IL-2 variant position numbering begins at the first amino acid following the signal peptide of the exemplary wild type (WT) human IL-2 polypeptide:

MYRMQLLSICIALSLALVTNS/A1/P2/T3/S4/S5/S6/T7/K8/K9/T10/Q11/L12/Q13/L14/E15/H16/L17/L18/L19/D20/L21/Q22/M23/I24/L25/N26/G27/I28/N29/N30/Y31/K32/N33/P34/K35/L36/T37/R38/M39/L40/T41/F42/K43/F44/Y45/M46/P47/K48/K49/A50/T51/E52/L53/K54/H55/L56/Q57/C58/L59/E60/E61/E62/L63/K64/P65/L66/E67/E68/V69/L70/N71/L72/A73/Q74/S75/K76/N77/F78/H79/L80/R81/P82/R83/D84/L85/I86/S87/N88/I89/N90/V91/I92/V93/L94/E95/L96/K97/G98/S99/E100/T101/T102/F103/M104/C105/E106/Y107/A108/D109/E110/T111/A112/T113/I114/V115/E116/F117/L118/N119/R120/W121/I122/T123/F124/C125/Q126/S127/I128/I129/S130/T131/L132/T133 (SEQ ID NO: 360; Uniprot P60568; signal peptide underlined). The corresponding amino acid sequence without the signal peptide is shown as SEQ ID NO: 1031.

In an embodiment, the IL-2 agent comprises amino acid alteration(s) (*e.g.*, substitution(s)) at position(s) corresponding to human IL-2 (*e.g.*, comprising the amino acid sequence of SEQ ID NO: 1031).

In an embodiment, the IL-2 variant comprises the amino acid sequence of A1/P2/X3/S4/S5/S6/T7/K8/K9/T10/Q11/L12/Q13/L14/E15/X16/L17/L18/L19/D20/L21/Q22/M23/I24/L25/N26/G27/X28/N29/N30/Y31/K32/N33/P34/X35/L36/T37/X38/M39/L40/T41/X42/K43/F44/Y45/M46/P47/K48/K49/A50/T51/E52/L53/K54/H55/L56/Q57/C58/L59/E60/E61/E62/L63/K64/P65/L66/E67/X68/X69/L70/N71/L72/A73/X74/S75/K76/N77/F78/H79/L80/R81/P82/R83/X84/L85/I86/X87/X88/I89/N90/V91/X92/V93/L94/E95/L96/K97/G98/S99/E100/T101/T102/F103/M104/C105/E106/Y107/A108/D109/E110/T111/A112/T113/I114/V115/E116/F117/L118/N119/R120/W121/I122/T123/F124/X125/X126/S127/I128/I129/S130/T131/L132/T133 (SEQ ID NO: 1032),

wherein: X3 is T or A; X16 is H, L or N; X28 is I, T or F; X35 is K or E; X38 is R, E, N or Q; X42 is F, A, K or Q; X68 is E, Q or N; X69 is V or A; X74 is Q or P; X84 is D or V; X87 is S or R; X88 is N, D, L or S; X92 is I or S; X125 is C or S; and X126 is Q, K, R or T, provided that the IL-2 variant does not comprise the amino acid sequence of SEQ ID NO: 1 or 1031. In an embodiment, the IL-2 variant comprises, or consists of, an IL-2 variant amino acid sequence described herein.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or all) of positions, as described herein. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or all) of positions chosen from T3, H16, I28, K35, R38, F42, E68, V69, Q74, D84, S87, N88, I92, C125, or Q126.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position I28. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position K35. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position R38. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position F42. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position E68. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position Q74. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position D84. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position S87. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position N88. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position I92. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position C125. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position Q126.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, or a combination thereof. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at positions V69 and Q74. In an embodiment, the IL-2 variant comprises the amino acid substitution V69A. In an embodiment, the IL-2 variant comprises the amino acid substitution Q74P.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, I92, D84, or a combination thereof. In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, optionally wherein the amino acid substitution is H16N, H16L, or H16D. In an embodiment, the IL-2 variant comprises the amino acid substitution H16N. In an embodiment, the IL-2 variant comprises the amino acid substitution H16L. In an embodiment, the IL-2 variant comprises the amino acid substitution H16D.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position at I92, optionally wherein the amino acid substitution is I92S. In an embodiment, the IL-2 variant comprises the amino acid substitution I92S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position D84, optionally wherein the amino acid substitution is D84V. In an embodiment, the IL-2 variant comprises the amino acid substitution is D84V.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position K35, R38, F42, E68, or a combination thereof. In an embodiment, the IL-2 variant comprises

an amino acid alteration (*e.g.*, substitution) at position K35, optionally wherein the amino acid substitution is K35E. In an embodiment, IL-2 variant comprises the amino acid substitution K35E.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position R38, optionally wherein the amino acid substitution is R38E, R38N or R38Q. In an
5 embodiment, the IL-2 variant comprises the amino acid substitution R38N. In an embodiment, the IL-2 variant comprises the amino acid substitution R38Q.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position F42, optionally wherein the amino acid substitution is F42K or F42Q. In an embodiment, the IL-2 variant comprises the amino acid substitution F42K. In an embodiment, the IL-2 variant
10 comprises the amino acid substitution F42Q.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution): (i) at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at one, two, or all of positions H16, I92, or D84. In an embodiment, the IL-2 variant further comprises an amino acid alteration (*e.g.*, substitution) at one, two, or all of positions R38, F42, or E68.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution): (i)
15 at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at (a) one, two, or all of positions H16, I92, or D84; or (b) one, two, or all of positions R38, F42, or E68.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution): (i)
20 at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at (a) one, two, or all of positions H16, I92, or D84; and (b) one, two, or all of positions R38, F42, or E68.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and H16, optionally wherein the amino acid substitution is V69A, Q74P, and H16N or H16L, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and H16N or H16L. In an embodiment, the IL-2 variant comprises the
25 amino acid substitutions V69A, Q74P, and H16N. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and H16L.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and I92, optionally wherein the amino acid substitution is V69A, Q74P, and I92S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A,
30 Q74P, and I92S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and D84, optionally wherein the amino acid substitution is V69A, Q74P, and D84V, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and D84V.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at
35 position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and

R38Q, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and R38Q.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and F42, optionally wherein the amino acid substitution is V69A, Q74P, and F42Q, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and F42Q.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38N, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and R38N.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38E, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitution V69A, Q74P, and R38E.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, and H16, optionally wherein the amino acid substitution is V69A, Q74P, K35E, and H16N, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, K35E, and H16N.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, K35E, H16N, and R38N, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, K35E, H16N, and R38N.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, H16N, and R38N or R38Q, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, H16N, and R38N or R38Q. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, H16N, and R38N. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, H16N, and R38Q.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position I28, E68, S87, N88, Q126, or a combination thereof.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position I28, optionally wherein the amino acid substitution is I28T or I28F. In an embodiment, the IL-2 variant comprises the amino acid substitution I28T. In an embodiment, the IL-2 variant comprises the amino acid substitution I28F.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position E68, optionally wherein the amino acid substitution is E68Q or E68N. In an embodiment, the

IL-2 variant comprises the amino acid substitution E68Q. In an embodiment, the IL-2 variant comprises the amino acid substitution E68N.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position S87, optionally wherein the amino acid substitution is S87R. In an embodiment, the IL-2
5 variant comprises the amino acid substitution S87R.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position N88, optionally wherein the amino acid substitution is N88S, N88L, or N88D. In an embodiment, the IL-2 variant comprises the amino acid substitution N88S, N88L, or N88D. In an embodiment, the IL-2 variant comprises the amino acid substitution N88S. In an embodiment, the IL-
10 2 variant comprises the amino acid substitution N88L. In an embodiment, the IL-2 variant comprises the amino acid substitution N88D.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position Q126, optionally wherein the amino acid substitution is Q126T, Q126K, or Q126R. In an embodiment, the IL-2 variant comprises the amino acid substitution Q126T, Q126K, or Q126R. In an
15 embodiment, the IL-2 variant comprises the amino acid substitution Q126T, Q126K, or Q126R. In an embodiment, the IL-2 variant comprises the amino acid substitution Q126T. In an embodiment, the IL-2 variant comprises the amino acid substitution Q126K. In an embodiment, the IL-2 variant comprises the amino acid substitution Q126R.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position C125, optionally wherein the amino acid substitution is C125S. In an embodiment, the IL-2
20 variant comprises the amino acid substitution C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3, optionally wherein the amino acid substitution is T3A. In an embodiment, the IL-2
variant comprises the amino acid substitution T3A.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and C125, optionally wherein the amino acid substitution is V69A, Q74P, and
25 C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions V69A, Q74P, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, I92, or a combination thereof, optionally wherein the amino acid substitution is
30 T3A, H16N, and I92S, respectively.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16N, V69A,
35 Q74P, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions H16N, V69A, Q74P, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16L, V69A,

Q74P, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions H16L, V69A, Q74P, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is H16L, V69A, Q74P, I92S, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions H16L, V69A, Q74P, I92S, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions T3A, V69A, Q74P, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, H16N or H16L, V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions T3A, H16N, V69A, Q74P, and C125S. In an embodiment, the IL-2 variant comprises the amino acid substitutions T3A, H16L, V69A, Q74P, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is T3A, V69A, Q74P, I92S, and C125S, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions T3A, V69A, Q74P, I92S, and C125S. In an embodiment, the IL-2 variant comprises the amino acid substitutions T3A, V69A, Q74P, I92S, and C125S.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, K35, V69 and Q74, optionally wherein the amino acid substitution is H16L, K35E, V69A, and Q74P, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions H16L, K35E, V69A, and Q74P.

In an embodiment, the IL-2 variant comprises an amino acid alteration (*e.g.*, substitution) at position H16, R38, V69A, and Q74P, optionally wherein the amino acid substitution is H16L, R38Q, V69A, and Q74P, respectively. In an embodiment, the IL-2 variant comprises the amino acid substitutions H16L, R38Q, V69A, and Q74P.

In an embodiment, the IL-2 variant comprises amino acid substitutions H16L, V69A, Q74P, and C125S. In an embodiment, the IL-2 variant comprises amino acid substitutions H16N, V69A, Q74P, and C125S.

There are various technical effects associated with the presence of the particular sets of mutations described herein, for example, a set of mutations comprising an amino acid substitution at position H16, in combination with amino acid substitutions at positions V69, Q74, and C125 (*e.g.*, H16L, V69A, Q74P, and C125S). Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 variant comprising the aforesaid mutations also has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 variant for regulatory T

cells (Treg) compared to other T cell types. Without wishing to be bound by theory, it is also believed that in an embodiment, an IL-2 variant comprising the aforesaid mutations is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations. For example, it was unexpected discovered that the V69A and Q74P substitutions do not substantially increase the binding affinity of the IL-2 variant for CD25, but rather stabilize the IL-2 variant in an active conformation sufficient for binding to CD25. Therefore, an IL-2 variant comprising these mutations selectively activates regulatory T cells (Treg) and is significantly stable. Without wishing to be bound by theory, it is further believed that in an embodiment, an IL-2 variant comprising the aforesaid mutations has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 variant. Without wishing to be bound by theory, it is also believed that in an embodiment, an IL-2 variant comprising these mutations does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*. Without wishing to be bound by theory, it is further believed that in an embodiment, an IL-2 variant comprising the aforesaid mutations has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 variant comprising these mutations particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 variant (*e.g.*, IL-2 variant or IL-2 fusion protein) comprising an amino acid substitution at position H16 in combination with amino acid substitutions at positions V69, Q74, and C125 (*e.g.*, H16L, V69A, Q74P, and C125S), has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the IL-2 variant comprises, or consists of, an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13,

SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 4, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 5, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 11, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 1000, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 1001, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 1002, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of any of SEQ ID NOs: 4, 5, 11, 1000, 1001, or 1002, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 4 or 5, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 4, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 5, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO:

11, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 1000, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid sequence of SEQ ID NO: 1001, or a functional fragment thereof. In an embodiment, the IL-2 variant comprises, or consists of, the amino acid
5 sequence of SEQ ID NO: 1002, or a functional fragment thereof.

Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 variant comprising, or consisting of, the amino acid sequence of SEQ ID NO: 5, or a functional fragment thereof, can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2
10 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) has reduced incorrect disulfide pairing and
15 improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 variant comprising, or consisting of, the amino acid sequence of SEQ ID NO: 5 particularly suitable for treating disorders and conditions
20 arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 variant comprising, or consisting of, the amino acid sequence SEQ ID NO: 5, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino
25 acids thereto, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or
30 decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased or substantially unchanged binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii)
35 enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

As described further herein, the disclosure provides IL-2 fusion proteins, IL-2 complexes, and IL-2 conjugates comprising an IL-2 variant described herein. In an embodiment, one or more different and/or improved properties ascribed to an IL-2 variant described herein is maintained, transferred, or imparted to the IL-2 fusion protein, IL-2 complex, or IL-2. For the purposes of the present disclosure, the terms “IL-2 variant” and “IL-2 mutein” may be used interchangeably herein.

In an embodiment, the IL-2 variant comprises a polypeptide (sometimes referred to herein as “IL-2 variant polypeptide”). This disclosure provides an isolated nucleic acid molecule encoding an IL-2 variant described herein, and vectors and host cells thereof. The nucleic acid molecule includes, but is not limited to, RNA, genomic DNA and cDNA.

IL-2 Fusion Proteins

In an embodiment, the IL-2 agent comprises an IL-2 fusion protein, *e.g.*, an IL-2 fusion protein described herein.

In an embodiment, the IL-2 fusion protein comprises an IL-2 variant, *e.g.*, an IL-2 variant described herein. In an embodiment, the IL-2 fusion protein comprises one or more amino acid alterations (*e.g.*, substitutions) described in **Table 9**. In an embodiment, the IL-2 fusion protein comprises an amino acid sequence described in **Table 9**, or a functional fragment thereof. In an embodiment, the IL-2 variant is encoded by a nucleic acid comprising a nucleotide sequence described herein, *e.g.*, in **Table 10**.

Without wishing to be bound by theory, it is believed that in an embodiment, the IL-2 fusion proteins described herein, which have reduced human CD25 and/or reduced human CD122/CD132 binding affinity relative to a IL-2 fusion protein comprising a wild-type human IL-2 or a reference IL-2 fusion protein, can have improved potency and/or selectivity for binding to and activating regulatory T cells (Tregs) than IL-2 fusion proteins comprising a wild-type human IL-2 or other IL-2 fusion protein.

In an embodiment, the IL-2 fusion protein has one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or more) properties described herein, *e.g.*, different and/or improved properties, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein comprises one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, or more) amino acid alterations (*e.g.*, substitutions) that provide different and/or improved properties, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or all) of the following different and/or improved properties (*e.g.*, as determined by an assay described herein), relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein:

- i) altered (*e.g.*, enhanced or increased) expression *in vitro* and/or *in vivo*;
- ii) altered (*e.g.*, reduced or decreased) aggregation *in vitro* and/or *in vivo*;
- iii) altered (*e.g.*, enhanced or increased) stability *in vitro* and/or *in vivo*;

- iv) altered (*e.g.*, enhanced or increased) half-life *in vitro* and/or *in vivo*;
- v) altered (*e.g.*, reduced or decreased) turnover and/or clearance *in vivo*;
- vi) altered (*e.g.*, reduced or decreased) susceptibility to proteolysis *in vitro* and/or *in vivo*;
- vii) altered (*e.g.*, enhanced or increased) resistance to proteolysis *in vitro* and/or *in vivo*;

5 viii) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*;

ix) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*;

10 x) altered (*e.g.*, reduced or decreased) binding capacity and/or binding affinity for the dimeric IL-2 receptor comprising human CD122 and human CD132 *in vitro* and/or *in vivo*;

xi) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) binding to Tregs *in vitro* and/or *in vivo*;

xii) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) activation of the IL-2 signaling pathway in Tregs *in vitro* and/or *in vivo*; or

15 xiii) altered (*e.g.*, enhanced, increased, reduced, decreased, and/or selective) ability to induce or promote Treg expansion, activity, survival, and/or proliferation *in vitro* and/or *in vivo*.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced or increased) expression *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased expression (*e.g.*, in a bacterial or mammalian cell) relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased expression (*e.g.*, in bacterial or mammalian cell) relative to a reference IL-2 fusion protein. In an embodiment, the expression of the IL-2 fusion protein is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the expression of the IL-2 fusion protein is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 fusion protein expresses at a higher or increased level *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by an assay of protein concentration. In an embodiment, the IL-2 fusion protein expresses at a higher or increased level, *e.g.*, increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by an assay of protein concentration.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, reduced or decreased) aggregation *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased aggregation relative to a wild type IL-2. In an embodiment, the IL-2 fusion protein has reduced or decreased aggregation relative to a reference IL-2 fusion protein. In an embodiment, the aggregation of the IL-2 fusion protein is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the aggregation of the IL-2 fusion protein is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 fusion protein aggregates at lower or decreased level *in vitro* and/or *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-exclusion chromatography. In an embodiment, the IL-2 fusion protein aggregates at lower or decreased level, *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by melting temperature analysis (*e.g.*, using fluorimetry), dynamic light scattering, and/or size-exclusion chromatography.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced or increased) stability *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased stability relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased stability relative to a reference IL-2 fusion protein. In an embodiment, the stability of the IL-2 fusion protein is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the stability of the IL-2 fusion protein is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 fusion protein has enhanced or increased stability *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, increased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-

fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein, *e.g.*, as determined by yeast surface display, circular dichroism or related spectroscopic techniques, and/or melting temperature analysis (*e.g.*, using fluorimetry).

5 In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced or increased) half-life *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased half-life relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased half-life relative to a reference IL-2 fusion protein. In an embodiment, the half-
10 life of the IL-2 fusion protein is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the half-life of the IL-2 fusion protein is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 fusion protein has enhanced or increased half-life *in vitro* and/or *in vivo*, *e.g.*, increased by about 1%, about 2%, about 3%, about 4%, about 5%, about
15 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, greater than about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-
20 fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

 In an embodiment, the IL-2 fusion protein has altered (*e.g.*, reduced or decreased) turnover *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2
25 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased turnover relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has reduced or decreased turnover relative to a reference IL-2 fusion protein. In an embodiment, the turnover of the IL-2 fusion protein is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the turnover of the IL-2 fusion
30 protein is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, about 10-fold, or more. In an embodiment, the IL-2 fusion protein has a lower, reduced or decreased rate or level of turnover and/or clearance *in vivo*, *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%,
35 about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-

fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein, *e.g.*, as determined by ELISA, flow cytometry, and/or mass spectrometry.

In an embodiment, the IL-2 fusion protein provided by the disclosure comprise the property
5 of having altered (*e.g.*, reduced or decreased) susceptibility to proteolysis *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased susceptibility to proteolysis relative to IL-2 (*e.g.*, wild type human IL-2). In an embodiment, the IL-2 fusion protein has reduced or decreased susceptibility to proteolysis relative to a reference IL-2 fusion protein. In an embodiment,
10 the susceptibility to proteolysis of the IL-2 fusion protein is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the susceptibility to proteolysis of the IL-2 fusion protein is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced or increased) resistance
15 to proteolysis *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased resistance to proteolysis relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased resistance to proteolysis relative to a reference IL-2 fusion protein. In an embodiment, the resistance to proteolysis of the IL-2 fusion
20 protein is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the resistance to proteolysis of the IL-2 fusion protein is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, reduced or decreased) binding
25 capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for human CD25 relative to a wild-type human IL-2). In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for human CD25 relative to a reference IL-2 fusion
30 protein. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for human CD25 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for human CD25 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more. In an embodiment, the IL-2 fusion
35 protein has reduced or decreased binding affinity for CD25 (*e.g.*, human CD25), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about

70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold
5 or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by yeast surface display, surface plasmon resonance (*e.g.* Biacore) and/or bio-layer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 fusion protein binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 5-500 pM, *e.g.*, about 5, about 10, about 15,
10 about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, or *e.g.*, about 10 to about 400 pM, about 20 to about 300 pM, about 50 to about 200 pM, about 100 to about 150 pM, about 5 to about 10
15 pM, about 10 to about 20 pM, about 20 to about 30 pM, or about 30 to about 40 pM, *e.g.*, about 40 to about 50 pM, about 50 to about 60 pM, about 60 to about 70 pM, about 70 to about 80 pM, about 80 to about 90 pM, about 90 to about 100 pM, about 100 to about 110 pM, about 110 to about 120 pM, about 120 to about 130 pM, about 130 to about 140 pM about 140 to about 150 pM, about 150 to about 200 pM, about 200 to about 250 pM, about 250 to about 300 pM, about 300 to about 350 pM,
20 about 350 to about 400 pM, about 400 to about 500 pM, or *e.g.*, greater than about 5, about 10, about 15, about 20, about 25, about 30, about 35, about 40, about 45, about 50, about 55, about 60, about 65, about 70, about 75, about 80, about 85, about 90, about 95, about 100, about 105, about 110, about 115, about 120, about 125, about 130, about 135, about 140, about 145, about 150, about 200, about 250, about 300, about 350, about 400, about 450, or about 500 pM, *e.g.* as determined by yeast
25 surface display, surface plasmon resonance (*e.g.* Biacore) and/or biolayer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 fusion protein binds to CD25 (*e.g.*, human CD25) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.1-10 nM, *e.g.*, about 0.1, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.5, about 2, about
30 2.5, about 3, about 3.5, about 4, about 4.5, about 5, about 6, about 7, about 8, about 9, or about 10 nM, or *e.g.*, about 0.2 to about 5 nM, about 0.5 to about 2 nM, about 1 to 1.5 nM, about 0.1 to about 0.2 nM, about 0.2 to about 0.3 nM, about 0.3 to about 0.4 nM, or about 0.4 to about 0.5 nM, *e.g.*, about 0.5 to about 0.6 nM, about 0.6 to about 0.7 nM, about 0.7 to about 0.8 nM, about 0.8 to about 0.9 nM, about 0.9 to about 1 nM, about 1 to about 1.5 nM, about 1.5 to about 2 nM, about 2.5 to about 3 nM,
35 about 3.5 to about 4 nM, about 4 to about 4.5 nM, about 4.5 to about 5 nM, about 5 to about 6 nM, about 6 to about 7 nM, about 7 to about 8 nM, about 8 to about 9 nM, or about 9 to about 10 nM, or *e.g.*, greater than about 0.1, about 0.2. about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8,

about 0.9, about 1, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, or about 10 nM, e.g., as determined by surface plasmon resonance (e.g. Biacore) and/or bio-layer interferometry (e.g., Octet binding).

In an embodiment, the IL-2 fusion protein has altered (e.g., reduced or decreased) binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for human CD132 relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for human CD132 relative to a reference IL-2 fusion protein. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for human CD132 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for human CD132 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has altered (e.g., reduced or decreased) binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human CD132 *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human CD132 relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has reduced or decreased binding capacity and/or binding affinity for the human dimeric IL-2 receptor comprising human CD122 and human CD132 relative to a reference IL-2 fusion protein. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for the human dimeric IL-2 receptor comprising human CD122 and human CD132 is decreased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding capacity and/or binding affinity of the IL-2 fusion protein for the human dimeric IL-2 receptor comprising human CD122 and human CD132 is decreased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has altered (e.g., enhanced, increased, and/or selective) binding to Tregs *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased binding to Tregs relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has selective binding to Tregs relative to IL-2 (e.g., wild type human IL-2). In an embodiment, the IL-2 fusion protein has enhanced or increased binding to Tregs relative to a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has selective binding to Tregs relative to a reference IL-2 fusion protein. In an embodiment, the binding to Tregs is

increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding to Tregs is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has reduced or decreased binding affinity for CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer), *e.g.*, decreased by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined by yeast surface display, surface plasmon resonance (*e.g.* Biacore) and/or bio-layer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 fusion protein binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.2-20 nM, *e.g.*, about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, or about 20 nM, or *e.g.*, about 0.5 to about 15 nM, about 1 to about 10 nM, about 2 to about 5 nM, about 0.2 to about 0.3 nM, about 0.3 to about 0.4 nM, about 0.4 to about 0.5 nM, about 0.5 to about 0.6 nM, about 0.6 to about 0.7 nM, about 0.7 to about 0.8 nM, about 0.8 to about 0.9 nM, about 0.9 to about 1 nM, about 1 to about 1.1 nM, about 1.1 to about 1.2 nM, about 1.2 to about 1.3 nM, about 1.3 to about 1.4 nM, about 1.4 to about 1.5 nM, about 1.5 to about 2 nM, about 2 to about 3 nM, about 3 to about 4 nM, about 4 to about 5 nM, about 5 to about 6 nM, about 6 to about 7 nM, about 7 to about 8 nM, about 8 to about 9 nM, about 9 to about 10 nM, about 10 to about 11 nM, about 11 to about 12 nM, about 12 to about 13 nM, about 13 to about 14 nM, about 14 to about 15 nM, about 15 to about 16 nM, about 16 to about 17 nM, about 17 to about 18 nM, about 18 to about 19 nM, or about 19 to about 20 nM, or *e.g.*, greater than about 0.2, about 0.3, about 0.4, about 0.5, about 0.6, about 0.7, about 0.8, about 0.9, about 1, about 1.1, about 1.2, about 1.3, about 1.4, about 1.5, about 2, about 3, about 4, about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, about 15, about 16, about 17, about 18, or about 20 nM, *e.g.*, as determined by yeast surface display.

In an embodiment, the IL-2 fusion protein binds to CD122/CD132 heterodimer (*e.g.*, human CD122/CD132 heterodimer) with low affinity, *e.g.*, with a dissociation constant (K_D) of about 0.2-300 nM, *e.g.*, about 0.2 nM, about 0.5 nM, about 1 nM, about 2 nM, about 5 nM, about 10 nM, about 15 nM, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140

nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or about 300 nM, or *e.g.*, about 0.5 to about 15 nM, about 1 to about 10 nM, about 2 to about 5 nM, about 0.2 nM to about 0.5 nM, about 0.5 nM to about 1 nM, about 1 to about 2 nM, about 2 nM to about 5 nM, about 5 nM to about 10 nM, about 10 nM to about 15 nM, about 15 nM to about 20 nM, about 20 nM to about 25 nM, about 25 to about 30 nM, about 30 nM to about 40 nM, about 40 nM to about 50 nM, about 50 to about 60 nM, about 60 to about 70 nM, about 70 nM to about 80 nM, about 80 nM to about 90 nM, about 90 nM to about 100 nM, about 100 nM to about 110 nM, about 110 nM to about 120 nM, about 120 nM to about 130 nM, about 130 nM to about 140 nM, about 140 nM to about 150 nM, about 150 nM to about 160 nM, about 160 nM to about 170 nM, about 170 nM to about 180 nM, about 180 nM to about 190 nM, about 190 nM to about 200 nM, about 200 nM to about 210 nM, about 210 nM to about 220 nM, about 220 nM to about 230 nM, about 230 nM to about 240 nM, about 240 nM to about 250 nM, about 250 nM to about 260 nM, about 260 nM to about 270 nM, about 270 nM to about 280 nM, about 280 nM to about 290 nM, or about 290 nM to about 300 nM, or *e.g.*, greater than about 0.2, about 0.5, about 1, about 2, about 5, about 10, about 15, about 20 nM, about 25 nM, about 30 nM, about 40 nM, about 50 nM, about 60 nM, about 70 nM, about 80 nM, about 90 nM, about 100 nM, about 110 nM, about 120 nM, about 130 nM, about 140 nM, about 150 nM, about 160 nM, about 170 nM, about 180 nM, about 190 nM, about 200 nM, about 210 nM, about 220 nM, about 230 nM, about 240 nM, about 250 nM, about 260 nM, about 270 nM, about 280 nM, about 290 nM, or greater than about 300 nM, *e.g.*, as determined by surface plasmon resonance (*e.g.* Biacore) and/or biolayer interferometry (*e.g.* Octet binding).

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced, increased, and/or selective) binding to Tregs *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased binding to Tregs relative to an IL-2 fusion protein comprising wild-type IL-2. In an embodiment, the IL-2 fusion protein has selective binding to Tregs relative to IL-2 (*e.g.*, wild type human IL-2). In an embodiment, the IL-2 fusion protein has enhanced or increased binding to Tregs relative to a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has selective binding to Tregs relative to a reference IL-2 fusion protein. In an embodiment, the binding to Tregs is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the binding to Tregs is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced, increased, and/or selective) activation of the IL-2 signaling pathway in Tregs *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased activation of the IL-2 signaling pathway in Tregs

relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has selective activation of the IL-2 signaling pathway in Tregs relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased activation of the IL-2 signaling pathway in Tregs relative to a reference IL-2 fusion protein.

5 In an embodiment, the IL-2 fusion protein has selective activation of the IL-2 signaling pathway in Tregs relative to a reference IL-2 fusion protein. In an embodiment, the activation of the IL-2 signaling pathway in Tregs is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the activation of the IL-2 signaling pathway in Tregs is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-
10 fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an T helper EC50/Treg EC50 ratio greater than about 1, about 2, about 3, about 4, about 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 150, 200, 250, 300, 350, 400,
15 450, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, or about 3000 or more relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined flow cytometry.

In an embodiment, the IL-2 fusion protein selectively activates IL-2 signaling in T regulatory cells *in vitro* and/or *in vivo*, *e.g.*, having an NK cell EC50/Treg EC50 ratio greater than *e.g.*, about 1,
20 about 2, about 3, about 4, about 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, or about 3000 or more, or *e.g.*, greater than 1 and about 1 to 2, about 2 to 3, about 3 to 4, about 4 to 5, greater than 1 and about 1 to 10, greater than 1 and about 1 to 20, greater than 1 and about 1 to 30, greater than 1 and about 1 to 40,
25 greater than 1 and about 1 to 50, about 2 to 10, about 2 to 20, about 2 to 30, about 2 to 40, 2 to 50, about 5 to 10, about 5 to 20, about 5 to 30, about 5 to 40, about 5 to 50, about 10 to 20, about 10 to 30, about 10 to 40 about 10 to 50, about 20 to 40, about 20 to 50, about 50 to 100, about 100 to 200, about 200 to 500, about 500 to 1000, about 1000 to 2000, or about 1000 to 3000, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined flow
30 cytometry.

In an embodiment, the IL-2 fusion protein has altered (*e.g.*, enhanced, increased, and/or selective) ability to induce or promote Treg expansion, activity, survival, and/or proliferation *in vitro* and/or *in vivo*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has enhanced or increased ability to induce
35 or promote Treg expansion, activity, survival, and/or proliferation relative to an IL-2 fusion protein comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has selective ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to an IL-2 fusion protein

comprising a wild-type IL-2. In an embodiment, the IL-2 fusion protein has enhanced or increased ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to a reference IL-2 fusion protein. In an embodiment, the IL-2 fusion protein has selective ability to induce or promote Treg expansion, activity, survival, and/or proliferation relative to a reference IL-2 fusion protein. In an embodiment, the ability to induce or promote Treg expansion, activity, survival, and/or proliferation is increased by about 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, or about 100%, or more. In an embodiment, the ability to induce or promote Treg expansion, activity, survival, and/or proliferation is increased by about 0.5-fold, 1-fold, 2-fold, 3-fold, 4-fold, 5-fold, 6-fold, 7-fold, 8-fold, 9-fold, or about 10-fold, or more.

In an embodiment, the IL-2 fusion protein has enhanced or increased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is lower by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined flow cytometry.

In an embodiment, the IL-2 fusion protein has reduced or decreased potency and/or ability to induce or promote T regulatory cell activity, *e.g.*, having an EC50 for Tregs that is higher by about 1%, about 2%, about 3%, about 4%, about 5%, about 10%, about 15%, about 20%, about 25%, about 30%, about 35%, about 40%, about 45%, about 50%, about 55%, about 60%, about 65%, about 70%, about 75%, about 80%, about 85%, about 90%, about 95%, or about 100% or more, or *e.g.*, decreased by about 0.5-fold, about 1-fold, about 1.5-fold, about 2-fold, about 2.5-fold, about 3-fold, about 3.5-fold, about 4-fold, about 4.5-fold, about 5-fold, about 5.5-fold, about 6-fold, about 6.5-fold, about 7-fold, about 7.5-fold, about 8-fold, about 8.5-fold, about 9-fold, about 9.5-fold, about 10-fold, about 50-fold, about 100-fold, about 200-fold, about 500-fold, about 1000-fold, about 2000-fold, about 5000-fold, about 10,000, about 15,000-fold, or about 20,000-fold or more *e.g.*, relative to an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein *e.g.*, as determined flow cytometry.

In an embodiment, the T helper cell described herein is a CD45+CD3+CD4+Foxp3- cell, *e.g.*, determined by flow cytometry. In an embodiment, the Treg described herein is CD45+CD3+CD4+Foxp3+ cell, *e.g.*, determined by flow cytometry. In an embodiment, the NK cell described herein is a CD45+CD3- cell that is CD56+ and/or CD16+, *e.g.*, determined by flow cytometry. In an embodiment, the NK cell described herein is a CD45+CD3-CD56+ cell, *e.g.*, determined by flow cytometry.

In an embodiment, the IL-2 fusion protein has one or more of the same, or substantially the same, structural and/or functional properties, as an IL-2 fusion protein comprising a wild-type IL-2 or a reference IL-2 fusion protein.

In an embodiment, the reference IL-2 fusion protein comprises an amino acid sequence that
5 has about 75%, 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more
sequence identity to an IL-2 fusion protein described herein. In an embodiment, the reference IL-2
fusion protein comprises an IL-2 variant comprising the amino acid sequence of SEQ ID NO: 57. In
an embodiment, the IL-2 fusion protein comprises an amino acid sequence that is at least 80%, 85%,
90%, 95%, or 98% identical to the amino acid sequence of SEQ ID NO: 57 and comprises one or
10 more (2, 3, 4, 5, 6, 7, 8, 9, 10, or more) amino acid alterations (*e.g.*, substitutions) described herein.

In an embodiment, the IL-2 fusion protein comprises an IL-2 polypeptide (*e.g.*, a human IL-2
polypeptide) described herein. In an embodiment, the IL-2 fusion protein is encoded by a nucleic acid
comprising a nucleotide sequence described herein.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*,
15 substitution) at one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or all) of positions in IL-2, as
described herein. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*,
substitution) at one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or all) of positions chosen
from T3, H16, I28, K35, R38, F42, E68, V69, Q74, D84, S87, N88, I92, C125, or Q126 in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*,
20 substitution) at position T3 in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino
acid alteration (*e.g.*, substitution) at position H16 in IL-2. In an embodiment, the IL-2 fusion protein
comprises an amino acid alteration (*e.g.*, substitution) at position I28 in IL-2. In an embodiment, the
IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position K35 in IL-2. In
an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at
25 position R38 in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration
(*e.g.*, substitution) at position F42 in IL-2. In an embodiment, the IL-2 fusion protein comprises an
amino acid alteration (*e.g.*, substitution) at position E68 in IL-2. In an embodiment, the IL-2 fusion
protein comprises an amino acid alteration (*e.g.*, substitution) at position V69 in IL-2. In an
embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position
30 Q74 in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*,
substitution) at position D84 in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino
acid alteration (*e.g.*, substitution) at position S87 in IL-2. In an embodiment, the IL-2 fusion protein
comprises an amino acid alteration (*e.g.*, substitution) at position N88 in IL-2. In an embodiment, the
IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position I92 in IL-2. In an
embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position
35 C125 in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*,
substitution) at position Q126 in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, or both, in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at positions V69 and Q74 in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution V69A in IL-2. In an
5 embodiment, the IL-2 fusion protein comprises the amino acid substitution Q74P in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, I92, D84, or a combination thereof, in IL-2. In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, optionally wherein the amino acid substitution is H16N, H16L, or H16D, in IL-2. In an embodiment, the IL-2
10 fusion protein comprises the amino acid substitution H16N in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution H16L in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution H16D in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position at I92, optionally wherein the amino acid substitution is I92S, in IL-2. In an
15 embodiment, the IL-2 fusion protein comprises the amino acid substitution I92S in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position D84, optionally wherein the amino acid substitution is D84V, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution is D84V in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position K35, R38, F42, E68, or a combination thereof, in IL-2. In an embodiment,
20 the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position K35, optionally wherein the amino acid substitution is K35E, in IL-2. In an embodiment, IL-2 fusion protein comprises the amino acid substitution K35E in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position R38, optionally wherein the amino acid substitution is R38E, R38N or R38Q,
25 in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution R38N in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution R38Q in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position F42, optionally wherein the amino acid substitution is F42K or F42Q, in IL-2.
30 In an embodiment, the IL-2 fusion protein comprises the amino acid substitution F42K in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution F42Q in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution): (i) at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at one, two, or all of positions H16, I92, or D84, in IL-2. In an embodiment, the IL-2 fusion
35 protein further comprises an amino acid alteration (*e.g.*, substitution) at one, two, or all of positions R38, F42, or E68, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution): (i) at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at (a) one, two, or all of positions H16, I92, or D84; or (b) one, two, or all of positions R38, F42, or E68, in IL-2.

5 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution): (i) at (a) positions V69 and Q74, (b) position K35, or (c) positions V69, Q74, and K35; and (ii) at (a) one, two, or all of positions H16, I92, or D84; and (b) one, two, or all of positions R38, F42, or E68, in IL-2.

10 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and H16, optionally wherein the amino acid substitution is V69A, Q74P, and H16N or H16L, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and H16N or H16L, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and H16N, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and H16L,
15 in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and I92, optionally wherein the amino acid substitution is V69A, Q74P, and I92S, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and I92S, in IL-2.

20 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and D84, optionally wherein the amino acid substitution is V69A, Q74P, and D84V, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and D84V, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38Q, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and R38Q, in IL-2.

25 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and F42, optionally wherein the amino acid substitution is V69A, Q74P, and F42Q, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and F42Q, in IL-2.

30 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38N, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and R38N, in IL-2.

35 In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A,

Q74P, and R38E, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution V69A, Q74P, and R38E, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, and H16, optionally wherein the amino acid substitution is V69A, Q74P, K35E, and H16N, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, K35E, and H16N, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, K35E, H16N, and R38N, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, K35E, H16N, and R38N, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, H16N, and R38N or R38Q, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, H16N, and R38N or R38Q, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, H16N, and R38N, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, H16N, and R38Q, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position I28, E68, S87, N88, Q126, or a combination thereof, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position I28, optionally wherein the amino acid substitution is I28T or I28F, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution I28T in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution I28F in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position E68, optionally wherein the amino acid substitution is E68Q or E68N, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution E68Q in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution E68N in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position S87, optionally wherein the amino acid substitution is S87R, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution S87R in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position N88, optionally wherein the amino acid substitution is N88S, N88L, or N88D, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution N88S, N88L, or N88D, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution N88S in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution N88L in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution N88D in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position Q126, optionally wherein the amino acid substitution is Q126T, Q126K, or Q126R, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution Q126T, Q126K, or Q126R, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution Q126T, Q126K, or Q126R, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution Q126T in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution Q126K in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution Q126R in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position C125 in IL-2, optionally wherein the amino acid substitution is C125S. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution C125S in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position T3 in IL-2, optionally wherein the amino acid substitution is T3A. In an embodiment, the IL-2 fusion protein comprises the amino acid substitution T3A in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and C125, in IL-2, optionally wherein the amino acid substitution is V69A, Q74P, and C125S, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions V69A, Q74P, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, I92, in IL-2, or a combination thereof, optionally wherein the amino acid substitution is T3A, H16N, and I92S, in IL-2, respectively.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, in IL-2, optionally wherein the amino acid substitution is H16N, V69A, Q74P, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16N, V69A, Q74P, and C125S in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, and C125, in IL-2, optionally wherein the amino acid substitution is H16L, V69A, Q74P, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16L, V69A, Q74P, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, V69, Q74, I92, and C125, in IL-2, optionally wherein the amino acid substitution is H16L, V69A, Q74P, I92S, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16L, V69A, Q74P, I92S, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, and C125, in IL-2, optionally wherein the amino acid

substitution is T3A, V69A, Q74P, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions T3A, V69A, Q74P, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position T3, H16, V69, Q74, and C125, in IL-2, optionally wherein the amino acid substitution is T3A, H16N or H16L, V69A, Q74P, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions T3A, H16N, V69A, Q74P, and C125S. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions T3A, H16L, V69A, Q74P, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position T3, V69, Q74, I92, and C125, in IL-2, optionally wherein the amino acid substitution is T3A, V69A, Q74P, I92S, and C125S, in IL-2, respectively. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions T3A, V69A, Q74P, I92S, and C125S, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions T3A, V69A, Q74P, I92S, and C125S, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, K35, V69 and Q74, optionally wherein the amino acid substitution is H16L, K35E, V69A, and Q74P, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16L, K35E, V69A, and Q74P, in IL-2.

In an embodiment, the IL-2 fusion protein comprises an amino acid alteration (*e.g.*, substitution) at position H16, R38, V69A, and Q74P, optionally wherein the amino acid substitution is H16L, R38Q, V69A, and Q74P, respectively, in IL-2. In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16L, R38Q, V69A, and Q74P, in IL-2.

In an embodiment, the IL-2 fusion protein comprises the amino acid substitutions H16L, V69A, Q74P, and C125S, in IL-2.

Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 fusion protein comprising the amino acid substitutions H16L, V69A, Q74P, and C125S, can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 variant comprising the amino acid substitutions H16L, V69A, Q74P, and

C125S particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 fusion protein comprising amino acid substitutions H16L, V69A, Q74P, and C125S, has *inter alia* one or more (e.g., 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 variant that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 variant for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased or substantially unchanged binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (e.g. Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the IL-2 fusion protein comprises an IL-2 variant comprising an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an IL-2 variant comprising the amino acid sequence of SEQ ID NO: 4, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises an IL-2 variant comprising the amino acid sequence of SEQ ID NO: 5, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 11, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino

acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1000, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1001, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1002, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of any of SEQ ID NOs: 4, 5, 11, 1000, 1001, or 1002, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 4 or 5, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 4, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 5, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 11, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1000, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1001, or a functional fragment thereof. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1002, or a functional fragment thereof.

Without wishing to be bound by theory, it is believed that in an embodiment, an IL-2 fusion protein comprising the amino acid sequence of SEQ ID NO: 5, or a functional fragment thereof, can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; and/or (v) has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 fusion protein comprising the amino acid sequence of SEQ

ID NO: 5 particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

Thus, in an embodiment, an IL-2 fusion protein comprising the amino acid sequence SEQ ID NO: 5, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 fusion protein that does not comprise the amino acid substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 fusion protein for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased or substantially unchanged binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; or (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation.

In an embodiment, the IL-2 fusion proteins described herein comprise an Fc region, *e.g.* an Fc region having one or more mutations described herein, and/or having one or more structural or functional properties described herein. Without wishing to be bound by theory, it is believed that in an embodiment, the Fc regions described herein can reduce (*e.g.*, prevent) renal clearance and/or extend half-life of the IL-2 agents (*e.g.*, via FcRn).

As used herein, the term “fusion protein” refers to a protein, comprising two or more protein or peptide components. The two or more protein or peptide components can be obtained from different sources or encoded by different genes. A fusion protein is sometimes also referred to as a chimeric protein. An Fc fusion protein (also known as Fc chimeric fusion protein, Fc-Ig, Ig-based chimeric fusion protein, or Fc-tag protein) can include an Fc region of an immunoglobulin (*e.g.*, an Fc region described herein) linked (*e.g.*, fused) to a protein or peptide. The Fc region can be linked (*e.g.*, fused genetically) to the protein or peptide directly, or indirectly, *e.g.*, through a linker. In an embodiment, the Fc region is derived from the Fc region of IgG, *e.g.*, human IgG, *e.g.*, IgG1, IgG2, IgG3, or IgG4. In an embodiment, the Fc region is derived from the Fc region of IgG1, *e.g.*, human IgG1.

An IL-2 fusion protein can include an IL-2 variant (*e.g.*, an IL-2 variant described herein), or a functional fragment thereof, linked (*e.g.*, fused) to a protein or peptide. In an embodiment, the IL-2 fusion protein is an IL-2-Fc fusion protein, *e.g.*, further comprising an Fc region of an immunoglobulin (*e.g.*, an Fc region described herein) linked (*e.g.*, fused) to the IL-2 polypeptide (*e.g.*, an IL-2 variant described herein) or a functional fragment thereof. In an embodiment, the IL-2 fusion

protein is not an IL-2-Fc fusion protein, *e.g.*, an IL-2 fusion variant described herein, or a functional fragment thereof, is linked (*e.g.*, fused) to a protein or peptide other than an Fc region of IgG, *e.g.*, human IgG, *e.g.*, IgG1, IgG2, IgG3, or IgG4.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
5 SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO:
61, SEQ ID NO: 62, SEQ ID NO: 63, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID
NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 71, SEQ ID NO: 72, SEQ
ID NO: 73, SEQ ID NO: 74, SEQ ID NO: 75, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78,
SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 81, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO:
10 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID
NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, or an amino acid sequence with at least
80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity
thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino
acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
15 SEQ ID NO: 94, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO:
99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 103, SEQ ID NO: 104, SEQ
ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, SEQ ID NO: 108, SEQ ID NO: 109, SEQ ID NO:
110, SEQ ID NO: 111, SEQ ID NO: 112, SEQ ID NO: 113, SEQ ID NO: 114, SEQ ID NO: 115, SEQ
20 ID NO: 116, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 120, SEQ ID NO:
121, SEQ ID NO: 122, SEQ ID NO: 123, SEQ ID NO: 124, SEQ ID NO: 125, SEQ ID NO: 126, SEQ
ID NO: 127, SEQ ID NO: 128, SEQ ID NO: 129, SEQ ID NO: 130, or SEQ ID NO: 131, or an amino
acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or
more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
25 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
SEQ ID NO: 132, SEQ ID NO: 133, SEQ ID NO: 134, SEQ ID NO: 135, SEQ ID NO: 136, SEQ ID
NO: 137, SEQ ID NO: 138, SEQ ID NO: 139, SEQ ID NO: 140, SEQ ID NO: 141, SEQ ID NO: 142,
SEQ ID NO: 143, SEQ ID NO: 144, SEQ ID NO: 145, SEQ ID NO: 146, SEQ ID NO: 147, SEQ ID
30 NO: 148, SEQ ID NO: 149, SEQ ID NO: 150, SEQ ID NO: 151, SEQ ID NO: 152, SEQ ID NO: 153,
SEQ ID NO: 154, SEQ ID NO: 155, SEQ ID NO: 156, SEQ ID NO: 157, SEQ ID NO: 158, SEQ ID
NO: 159, SEQ ID NO: 160, SEQ ID NO: 161, SEQ ID NO: 162, SEQ ID NO: 163, SEQ ID NO: 164,
SEQ ID NO: 165, SEQ ID NO: 166, SEQ ID NO: 167, SEQ ID NO: 168, or SEQ ID NO: 169, or an
amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%,
35 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
SEQ ID NO: 170, SEQ ID NO: 171, SEQ ID NO: 172, SEQ ID NO: 173, SEQ ID NO: 174, SEQ ID
NO: 175, SEQ ID NO: 176, SEQ ID NO: 177, SEQ ID NO: 178, SEQ ID NO: 179, SEQ ID NO: 180,
SEQ ID NO: 181, SEQ ID NO: 182, SEQ ID NO: 183, SEQ ID NO: 184, SEQ ID NO: 185, SEQ ID
5 NO: 186, SEQ ID NO: 187, SEQ ID NO: 188, SEQ ID NO: 189, SEQ ID NO: 190, SEQ ID NO: 191,
SEQ ID NO: 192, SEQ ID NO: 193, SEQ ID NO: 194, SEQ ID NO: 195, SEQ ID NO: 196, SEQ ID
NO: 197, SEQ ID NO: 198, SEQ ID NO: 199, SEQ ID NO: 200, SEQ ID NO: 201, SEQ ID NO: 202,
SEQ ID NO: 203, SEQ ID NO: 204, SEQ ID NO: 205, SEQ ID NO: 206, or SEQ ID NO: 207, or an
amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%,
10 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
SEQ ID NO: 208, SEQ ID NO: 209, SEQ ID NO: 210, SEQ ID NO: 211, SEQ ID NO: 212, SEQ ID
NO: 213, SEQ ID NO: 214, SEQ ID NO: 215, SEQ ID NO: 216, SEQ ID NO: 217, SEQ ID NO: 218,
15 SEQ ID NO: 219, SEQ ID NO: 220, SEQ ID NO: 221, SEQ ID NO: 222, SEQ ID NO: 223, SEQ ID
NO: 224, SEQ ID NO: 225, SEQ ID NO: 226, SEQ ID NO: 227, SEQ ID NO: 228, SEQ ID NO: 229,
SEQ ID NO: 230, SEQ ID NO: 231, SEQ ID NO: 232, SEQ ID NO: 233, SEQ ID NO: 234, SEQ ID
NO: 235, SEQ ID NO: 236, SEQ ID NO: 237, SEQ ID NO: 238, SEQ ID NO: 239, SEQ ID NO: 240,
SEQ ID NO: 241, SEQ ID NO: 242, SEQ ID NO: 243, SEQ ID NO: 244, or SEQ ID NO: 245, or an
20 amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%,
99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
SEQ ID NO: 246, SEQ ID NO: 247, SEQ ID NO: 248, SEQ ID NO: 249, SEQ ID NO: 250, SEQ ID
25 NO: 251, SEQ ID NO: 252, SEQ ID NO: 253, SEQ ID NO: 254, SEQ ID NO: 255, SEQ ID NO: 256,
SEQ ID NO: 257, SEQ ID NO: 258, SEQ ID NO: 259, SEQ ID NO: 260, SEQ ID NO: 261, SEQ ID
NO: 262, SEQ ID NO: 263, SEQ ID NO: 264, SEQ ID NO: 265, SEQ ID NO: 266, SEQ ID NO: 267,
SEQ ID NO: 268, SEQ ID NO: 269, SEQ ID NO: 270, SEQ ID NO: 271, SEQ ID NO: 272, SEQ ID
NO: 273, SEQ ID NO: 274, SEQ ID NO: 275, SEQ ID NO: 276, SEQ ID NO: 277, SEQ ID NO: 278,
30 SEQ ID NO: 279, SEQ ID NO: 280, SEQ ID NO: 281, SEQ ID NO: 282, or SEQ ID NO: 283, or an
amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%,
99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from:
35 SEQ ID NO: 284, SEQ ID NO: 285, SEQ ID NO: 286, SEQ ID NO: 287, SEQ ID NO: 288, SEQ ID
NO: 289, SEQ ID NO: 290, SEQ ID NO: 291, SEQ ID NO: 292, SEQ ID NO: 293, SEQ ID NO: 294,
SEQ ID NO: 295, SEQ ID NO: 296, SEQ ID NO: 297, SEQ ID NO: 298, SEQ ID NO: 299, SEQ ID

NO: 300, SEQ ID NO: 301, SEQ ID NO: 302, SEQ ID NO: 303, SEQ ID NO: 304, SEQ ID NO: 305, SEQ ID NO: 306, SEQ ID NO: 307, SEQ ID NO: 308, SEQ ID NO: 309, SEQ ID NO: 310, SEQ ID NO: 311, SEQ ID NO: 312, SEQ ID NO: 313, SEQ ID NO: 314, SEQ ID NO: 315, SEQ ID NO: 316, SEQ ID NO: 317, SEQ ID NO: 318, SEQ ID NO: 319, SEQ ID NO: 320, or SEQ ID NO: 321, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from: SEQ ID NO: 322, SEQ ID NO: 323, SEQ ID NO: 324, SEQ ID NO: 325, SEQ ID NO: 326, SEQ ID NO: 327, SEQ ID NO: 328, SEQ ID NO: 329, SEQ ID NO: 330, SEQ ID NO: 331, SEQ ID NO: 332, SEQ ID NO: 333, SEQ ID NO: 334, SEQ ID NO: 335, SEQ ID NO: 336, SEQ ID NO: 337, SEQ ID NO: 338, SEQ ID NO: 339, SEQ ID NO: 340, SEQ ID NO: 341, SEQ ID NO: 342, SEQ ID NO: 343, SEQ ID NO: 344, SEQ ID NO: 345, SEQ ID NO: 346, SEQ ID NO: 347, SEQ ID NO: 348, SEQ ID NO: 349, SEQ ID NO: 350, SEQ ID NO: 351, SEQ ID NO: 352, SEQ ID NO: 353, SEQ ID NO: 354, SEQ ID NO: 355, SEQ ID NO: 356, SEQ ID NO: 357, SEQ ID NO: 358, or SEQ ID NO: 359, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 fusion protein comprises an amino acid sequence chosen from: 1004, SEQ ID NO: 1005, SEQ ID NO: 1006, SEQ ID NO: 1007, SEQ ID NO: 1008, SEQ ID NO: 1009 or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1004, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1005, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1006, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion protein comprises the amino acid sequence of SEQ ID NO: 1007, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto. In an embodiment, the IL-2 fusion

protein comprises the amino acid sequence of SEQ ID NO: 1008, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 agent comprises the amino acid sequence of any of SEQ ID NOs: 1004-1009, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1007 or 1008, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1004, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1005, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1006, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1007, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1008, or a functional fragment thereof. In an embodiment, the IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1009, or a functional fragment thereof.

5 Without wishing to be bound by theory, it is also believed that in an embodiment, an IL-2 fusion protein comprising the amino acid sequence of SEQ ID NO: 1008, or a functional fragment thereof, can have at least one or more of the following advantageous properties: (i) has reduced binding affinity for CD122 and/or CD132, which increases the potency and selectivity of the IL-2 agent for regulatory T cells (Treg) compared to other T cell types; (ii) is significantly stable, *e.g.*, due to the presence of stabilizing V69A and Q74P mutations; (iii) has reduced or decreased binding capacity and/or binding affinity for CD25, which improves the lifetime of the IL-2 agent; (iv) does not substantially promote expansion, activation, survival, and/or proliferation of T effector cells and/or natural killer (NK) cells *in vitro* and/or *in vivo*; (v) has reduced incorrect disulfide pairing and improved stability, *e.g.*, due to the presence of the C125S mutation; and/or (vi) has reduced effector function, *e.g.*, by reduced Fc glycosylation due to the N297G mutation in the Fc region. In an embodiment, an IL-2 agent comprising the H16L mutation has reduced binding affinity for CD122 and/or CD132 and/or increased potency and selectivity for Treg over other T cell types, compared to an IL-2 agent comprising other H16 mutations. These properties make an IL-2 fusion protein comprising the amino acid sequence of SEQ ID NO: 1008 particularly suitable for treating disorders and conditions arising from abnormal immune responses, such as autoimmune diseases.

20 Thus, in an embodiment, an IL-2 fusion protein comprising the amino acid sequence SEQ ID NO: 1008, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, 30, 35, 40, 45, or 50 amino acids thereto, has *inter alia* one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, or all) of the following properties relative to a wild-type IL-2 or a reference IL-2 fusion protein that does not comprise the amino acid

substitutions: (i) enhanced or increased stability *in vitro* or *in vivo*; (ii) reduced or decreased binding capacity and/or binding affinity for human CD122 *in vitro* and/or *in vivo*; (iii) reduced or decreased binding capacity and/or binding affinity for human CD132 *in vitro* and/or *in vivo*; (iv) reduced or decreased affinity of the IL-2 fusion protein for the heterodimeric IL-2 receptor composed of human CD122 and human CD132 (*i.e.* human CD122/CD132 heterodimer) *in vitro* and/or *in vivo*; (v) reduced or decreased or substantially unchanged binding capacity and/or binding affinity for human CD25 *in vitro* and/or *in vivo*; (vi) selective binding to regulatory T cells (*e.g.* Foxp3⁺ T cells); (vii) selective activation of the IL-2 signaling pathway in T regulatory cells (Tregs) *in vitro* or *in vivo*; (viii) enhanced or increased ability to induce or promote Treg expansion, activity, survival and/or proliferation; or (ix) reduced or decreased effector function.

In an embodiment, the IL-2 fusion protein comprises from N-terminus to C-terminus an IL-2 variant described herein and an Fc region (*e.g.*, Fc region described herein). In an embodiment, the fusion protein further comprises a linker (*e.g.*, a linker described herein) between the IL-2 variant and the Fc region. In an embodiment the IL-2 fusion forms a dimer, *e.g.*, a homodimer.

In an embodiment, the fusion protein comprises one or more glycosylation sites, or is glycosylated. In another embodiment, the fusion protein does not have a glycosylation site, or is not glycosylated.

In an embodiment, the only amino acids in the fusion protein are canonical amino acids. In an embodiment, the fusion protein comprises naturally-occurring amino acids; analogs, derivatives and congeners thereof; amino acid analogs having variant side chains; and/or all stereoisomers of any of any of the foregoing. The fusion protein may comprise the D- or L- optical isomers of amino acids and peptidomimetics.

In an aspect, this disclosure provides a method of making an IL-2 fusion protein disclosed herein. The IL-2 fusion proteins described herein can be produced by any suitable recombinant DNA technique. In an embodiment, the method includes culturing a cell containing a nucleic acid encoding the IL-2 fusion protein under conditions that allow production of the fusion protein. In another embodiment, the method further includes isolating or purifying the IL-2 fusion protein. In yet another embodiment, the method further includes evaluating efficacy of the IL-2 fusion protein in a cell-based assay or in an animal model. In still another embodiment, the method further includes administering the IL-2 fusion protein to a subject, *e.g.*, a human.

This disclosure provides an isolated nucleic acid molecule encoding an IL-2 fusion protein described herein, and vectors and host cells thereof. The nucleic acid molecule includes, but is not limited to, RNA, genomic DNA and cDNA.

IL-2 Complexes

In an embodiment, the IL-2 agent comprises an IL-2 complex, *e.g.*, an IL-2 complex described herein. In an embodiment, the IL-2 complex is an IL-2/anti-IL-2 antibody immune complex (IL-2 ic).

5 Without wishing to be bound by theory, it is believed that in an embodiment, IL-2 complexes, such as IL-2/anti-IL-2 antibody immune complexes, can potentiate biologic activity of IL-2 *in vivo*. For example, the effect of IL-2 on cells (*e.g.*, Tregs) can be modulated by complexing IL-2 with distinct mAbs that specifically bind IL-2. The mechanisms can include, *e.g.*, the prolongation of the cytokine half-life in circulation. Depending on the clone of IL-2 antibody, IL-2 ic can selectively
10 stimulate, for example, CD25^{high} cells (*e.g.*, IL-2/JES6-1 immune complexes), or CD122^{high} cells (*e.g.*, IL-2/S4B6 immune complexes). For example, IL-2/JES6-1 immune complexes highly selectively stimulate regulatory T cells and they can be useful for transplantations and in treatment of autoimmune diseases. As another example, IL-2/S4B6 immune complexes can have high stimulatory activity for NK cells and memory CD8⁺ T cells and they can replace the conventional IL-2 in cancer
15 immunotherapy.

In an embodiment, the IL-2 complex comprises an IL-2 variant described herein. In an embodiment, the IL-2 complex comprises one or more amino acid alterations (*e.g.*, substitutions) described in **Table 9**. In an embodiment, the IL-2 complex comprises an amino acid sequence described in **Table 9**, or a functional fragment thereof. In an embodiment, the IL-2 complex
20 comprises an anti-IL-2 antibody molecule. In an embodiment, the IL-2 complex comprises an IL-2 variant described herein and an anti-IL-2 antibody molecule. In an embodiment, the anti-IL-2 antibody molecule binds to the IL-2 variant. In an embodiment, the anti-IL-2 antibody molecule is capable of binding to the IL-2 variant and the wild-type IL-2. In an embodiment, the IL-2 variant comprises one or more mutations described herein. In an embodiment, the one or more mutations
25 does not reduce, or does not substantially reduce, binding of the IL-2 variant to an anti-IL-2 antibody molecule.

In an embodiment, the IL-2 complex comprises an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO:
30 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or an amino acid
35 sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 complex modulates (*e.g.*, stimulates) one or more activities of T cells. In an embodiment, the IL-2 complex stimulates CD25^{high} cells. In an embodiment, the IL-2 complex stimulates Tregs. In an embodiment, the IL-2 complex stimulates CD122^{high} cells. In an embodiment, the IL-2 complex stimulates NK cells and/or memory CD8⁺ T cells. In an embodiment, the IL-2 complex selectively stimulates CD25^{high} cells over CD122^{high} cells. In an embodiment, the IL-2 complex selectively stimulates CD122^{high} cells over CD25^{high} cells. In an embodiment, the IL-2 complex selectively stimulates Tregs over NK cells and/or memory CD8⁺ T cells. In an embodiment, the IL-2 complex selectively stimulates NK cells and/or memory CD8⁺ T cells over Tregs.

Exemplary anti-IL-2 antibody molecules suitable for use are described, *e.g.*, in International Application Publication No. WO 2016/164937, which is incorporated herein by reference in its entirety.

As used herein, the term “antibody molecule” refers to a protein, *e.g.*, an immunoglobulin chain or a fragment thereof, comprising at least one immunoglobulin variable domain sequence. The term “antibody molecule” includes, for example, full-length, mature antibodies and antigen-binding fragments of an antibody. For example, an antibody molecule can include a heavy (H) chain variable domain sequence (abbreviated herein as VH), and a light (L) chain variable domain sequence (abbreviated herein as VL). In another example, an antibody molecule includes two heavy (H) chain variable domain sequences and two light (L) chain variable domain sequence, thereby forming two antigen binding sites, such as Fab, Fab', F(ab')₂, Fc, Fd, Fd', Fv, single chain antibodies (scFv for example), single variable domain antibodies, diabodies (Dab) (bivalent and bispecific), and chimeric (*e.g.*, humanized) antibodies, which may be produced by the modification of whole antibodies or those synthesized *de novo* using recombinant DNA technologies. These functional antibody fragments retain the ability to selectively bind with their respective antigen or receptor. Antibodies and antibody fragments can be from any class of antibodies including, but not limited to, IgG, IgA, IgM, IgD, and IgE, and from any subclass (*e.g.*, IgG1, IgG2, IgG3, and IgG4) of antibodies. The antibody molecules can be monoclonal or polyclonal. The antibody molecule can also be a human, humanized, CDR-grafted, or *in vitro* generated antibody. The antibody molecule can have a heavy chain constant region chosen from, *e.g.*, IgG1, IgG2, IgG3, or IgG4. The antibody molecule can also have a light chain chosen from, *e.g.*, kappa or lambda. The term “immunoglobulin” (Ig) is used interchangeably with the term “antibody” herein.

Examples of antigen-binding fragments include: (i) a Fab fragment, a monovalent fragment consisting of the VL, VH, CL and CH1 domains; (ii) a F(ab')₂ fragment, a bivalent fragment comprising two Fab fragments linked by a disulfide bridge at the hinge region; (iii) a Fd fragment consisting of the VH and CH1 domains; (iv) a Fv fragment consisting of the VL and VH domains of a single arm of an antibody, (v) a diabody (dAb) fragment, which consists of a VH domain; (vi) a camelid or camelized variable domain; (vii) a single chain Fv (scFv), see *e.g.*, Bird *et al.* (1988)

Science 242:423-426; and Huston *et al.* (1988) *Proc. Natl. Acad. Sci. USA* 85:5879-5883); (viii) a single domain antibody. These antibody fragments may be obtained using any suitable method, including several conventional techniques known to those with skill in the art, and the fragments can be screened for utility in the same manner as are intact antibodies.

5 The term “antibody” includes intact molecules as well as functional fragments thereof. Constant regions of the antibodies can be altered, *e.g.*, mutated, to modify the properties of the antibody (*e.g.*, to increase or decrease one or more of: Fc receptor binding, antibody glycosylation, the number of cysteine residues, effector cell function, or complement function).

10 The antibody molecule can be a single chain antibody. A single-chain antibody (scFV) may be engineered (*see*, for example, Colcher, D. *et al.* (1999) *Ann N Y Acad Sci* 880:263-80; and Reiter, Y. (1996) *Clin Cancer Res* 2:245-52). The single chain antibody can be dimerized or multimerized to generate multivalent antibodies having specificities for different epitopes of the same target protein.

15 The antibody molecules disclosed herein can also be single domain antibodies. Single domain antibodies can include antibodies whose complementary determining regions are part of a single domain polypeptide. Examples include, but are not limited to, heavy chain antibodies, antibodies naturally devoid of light chains, single domain antibodies derived from conventional 4-chain antibodies, engineered antibodies and single domain scaffolds other than those derived from antibodies. Single domain antibodies may be any of the art, or any future single domain antibodies. Single domain antibodies may be derived from any species including, but not limited to mouse, 20 human, camel, llama, fish, shark, goat, rabbit, and bovine. According to some aspects, a single domain antibody is a naturally occurring single domain antibody known as heavy chain antibody devoid of light chains. Such single domain antibodies are disclosed in WO 94/04678, for example. For clarity reasons, this variable domain derived from a heavy chain antibody naturally devoid of light chain is known herein as a VHH or nanobody to distinguish it from the conventional VH of four chain 25 immunoglobulins. Such a VHH molecule can be derived from antibodies raised in *Camelidae* species, for example in camel, llama, dromedary, alpaca and guanaco. Other species besides *Camelidae* may produce heavy chain antibodies naturally devoid of light chain; such VHHs are also contemplated.

30 The VH and VL regions can be subdivided into regions of hypervariability, termed “complementarity determining regions” (CDR), interspersed with regions that are more conserved, termed “framework regions” (FR or FW). The terms “complementarity determining region,” and “CDR,” as used herein refer to the sequences of amino acids within antibody variable regions which confer antigen specificity and binding affinity. As used herein, the terms “framework,” “FW” and “FR” are used interchangeably.

35 The extent of the framework region and CDRs has been precisely defined by a number of methods (*see*, Kabat, E. A., *et al.* (1991) *Sequences of Proteins of Immunological Interest*, Fifth Edition, U.S. Department of Health and Human Services, NIH Publication No. 91-3242; Chothia, C.

et al. (1987) *J. Mol. Biol.* 196:901-917; and the AbM definition used by Oxford Molecular's AbM antibody modeling software. See, generally, e.g., Protein Sequence and Structure Analysis of Antibody Variable Domains. In: Antibody Engineering Lab Manual (Ed.: Duebel, S. and Kontermann, R., Springer-Verlag, Heidelberg). In an embodiment, the following definitions are used:

5 AbM definition of CDR1 of the heavy chain variable domain and Kabat definitions for the other CDRs. In an embodiment, Kabat definitions are used for all CDRs. In addition, embodiments described with respect to Kabat or AbM CDRs may also be implemented using Chothia hypervariable loops. Each VH and VL typically includes three CDRs and four FRs, arranged from amino-terminus to carboxy-terminus in the following order: FR1, CDR1, FR2, CDR2, FR3, CDR3, and FR4.

10 As used herein, an "immunoglobulin variable domain sequence" refers to an amino acid sequence which can form the structure of an immunoglobulin variable domain. For example, the sequence may include all or part of the amino acid sequence of a naturally-occurring variable domain. For example, the sequence may or may not include one, two, or more N- or C-terminal amino acids or may include other alterations that are compatible with formation of the protein structure.

15 The term "antigen-binding region" refers to the part of an antibody molecule that comprises determinants that form an interface that binds to an antigen, or an epitope thereof. With respect to proteins (or protein mimetics), the antigen-binding region typically includes one or more loops (of at least, e.g., four amino acids or amino acid mimics) that form an interface that binds to the antigen. Typically, the antigen-binding region of an antibody molecule includes at least one or two CDRs

20 and/or hypervariable loops, or more typically at least three, four, five or six CDRs and/or hypervariable loops.

The terms "compete" or "cross-compete" are used interchangeably herein to refer to the ability of an antibody molecule to interfere with binding of another antibody molecule to a target. The interference with binding can be direct or indirect (e.g., through an allosteric modulation of the antibody molecule or the target). The extent to which an antibody molecule is able to interfere with

25 the binding of another antibody molecule to the target, and therefore whether it can be said to compete, can be determined using a competition binding assay, for example, a FACS assay, an ELISA or BIACORE assay. In an embodiment, a competition binding assay is a quantitative competition assay. In an embodiment, a first antibody molecule is said to compete for binding to the target with a

30 second antibody molecule when the binding of the first antibody molecule to the target is reduced by 10% or more, e.g., 20% or more, 30% or more, 40% or more, 50% or more, 55% or more, 60% or more, 65% or more, 70% or more, 75% or more, 80% or more, 85% or more, 90% or more, 95% or more, 98% or more, 99% or more in a competition binding assay (e.g., a competition assay described herein).

35 The terms "monoclonal antibody" or "monoclonal antibody composition" as used herein refer to a preparation of antibody molecules of single molecular composition. A monoclonal antibody composition displays a single binding specificity and affinity for a particular epitope. A monoclonal

antibody can be made by hybridoma technology or by methods that do not use hybridoma technology (e.g., recombinant methods).

An “effectively human” protein is a protein that does not evoke a neutralizing antibody response, e.g., the human anti-murine antibody (HAMA) response. HAMA can be problematic in a number of circumstances, e.g., if the antibody molecule is administered repeatedly, e.g., in treatment of a chronic or recurrent disease condition. A HAMA response can make repeated antibody administration potentially ineffective because of an increased antibody clearance from the serum (see, e.g., Saleh *et al.*, *Cancer Immunol. Immunother.* 32:180-190 (1990)) and also because of potential allergic reactions (see, e.g., LoBuglio *et al.*, *Hybridoma*, 5:5117-5123 (1986)).

The antibody molecule can be a polyclonal or a monoclonal antibody. In an embodiment, the antibody can be recombinantly produced, e.g., produced by any suitable phage display or combinatorial methods.

Various phage display and combinatorial methods for generating antibodies are known in the art (as described in, e.g., Ladner *et al.* U.S. Patent No. 5,223,409; Kang *et al.* International Publication No. WO 92/18619; Dower *et al.* International Publication No. WO 91/17271; Winter *et al.* International Publication WO 92/20791; Markland *et al.* International Publication No. WO 92/15679; Breitling *et al.* International Publication WO 93/01288; McCafferty *et al.* International Publication No. WO 92/01047; Garrard *et al.* International Publication No. WO 92/09690; Ladner *et al.* International Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum Antibod Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J* 12:725-734; Hawkins *et al.* (1992) *J Mol Biol* 226:889-896; Clackson *et al.* (1991) *Nature* 352:624-628; Gram *et al.* (1992) *PNAS* 89:3576-3580; Garrard *et al.* (1991) *Bio/Technology* 9:1373-1377; Hoogenboom *et al.* (1991) *Nuc Acid Res* 19:4133-4137; and Barbas *et al.* (1991) *PNAS* 88:7978-7982, the contents of all of which are incorporated by reference herein).

In an embodiment, the antibody molecule is a fully human antibody (e.g., an antibody made in a mouse which has been genetically engineered to produce an antibody from a human immunoglobulin sequence), or a non-human antibody, e.g., a rodent (mouse or rat), goat, primate (e.g., monkey), camel antibody. In an embodiment, the non-human antibody is a rodent (mouse or rat antibody). Methods of producing rodent antibodies are known in the art.

Human monoclonal antibodies can be generated using transgenic mice carrying the human immunoglobulin genes rather than the mouse system. Splenocytes from these transgenic mice immunized with the antigen of interest are used to produce hybridomas that secrete human mAbs with specific affinities for epitopes from a human protein (see e.g., Wood *et al.* International Application WO 91/00906, Kucherlapati *et al.* PCT publication WO 91/10741; Lonberg *et al.* International Application WO 92/03918; Kay *et al.* International Application 92/03917; Lonberg *et al.* 1994 *Nature* 368:856-859; Green, L.L. *et al.* 1994 *Nature Genet.* 7:13-21; Morrison, S.L. *et al.* 1994 *Proc. Natl.*

Acad. Sci. USA 81:6851-6855; Bruggeman et al. 1993 *Year Immunol* 7:33-40; Tuailleon et al. 1993 *PNAS* 90:3720-3724; Bruggeman et al. 1991 *Eur J Immunol* 21:1323-1326).

An antibody can be one in which the variable region, or a portion thereof, *e.g.*, the CDRs, are generated in a non-human organism, *e.g.*, a rat or mouse. Chimeric, CDR-grafted, and humanized antibodies are within the invention. Antibodies generated in a non-human organism, *e.g.*, a rat or mouse, and then modified, *e.g.*, in the variable framework or constant region, to decrease antigenicity in a human are within the invention.

Chimeric antibodies can be produced by any suitable recombinant DNA technique. Several are known in the art (see Robinson et al., International Patent Publication PCT/US86/02269; Akira, et al., European Patent Application 184,187; Taniguchi, M., European Patent Application 171,496; Morrison et al., European Patent Application 173,494; Neuberger *et al.*, International Application WO 86/01533; Cabilly *et al.* U.S. Patent No. 4,816,567; Cabilly et al., European Patent Application 125,023; Better *et al.* (1988 *Science* 240:1041-1043); Liu et al. (1987) *PNAS* 84:3439-3443; Liu *et al.*, 1987, *J. Immunol.* 139:3521-3526; Sun et al. (1987) *PNAS* 84:214-218; Nishimura *et al.*, 1987, *Canc. Res.* 47:999-1005; Wood et al. (1985) *Nature* 314:446-449; and Shaw *et al.*, 1988, *J. Natl Cancer Inst.* 80:1553-1559).

A humanized or CDR-grafted antibody will have at least one or two but generally all three recipient CDRs (of heavy and or light immunoglobulin chains) replaced with a donor CDR. The antibody may be replaced with at least a portion of a non-human CDR or only some of the CDRs may be replaced with non-human CDRs. It is only necessary to replace the number of CDRs required for binding of the humanized antibody to lipopolysaccharide. In an embodiment, the donor will be a rodent antibody, *e.g.*, a rat or mouse antibody, and the recipient will be a human framework or a human consensus framework. Typically, the immunoglobulin providing the CDRs is called the “donor” and the immunoglobulin providing the framework is called the “acceptor.” In an embodiment, the donor immunoglobulin is a non-human (*e.g.*, rodent). The acceptor framework is typically a naturally-occurring (*e.g.*, a human) framework or a consensus framework, or a sequence about 85% or higher, *e.g.*, 90%, 95%, 99% or higher identical thereto.

As used herein, the term “consensus sequence” refers to the sequence formed from the most frequently occurring amino acids (or nucleotides) in a family of related sequences (See *e.g.*, Winnaker, From Genes to Clones (Verlagsgesellschaft, Weinheim, Germany 1987). In a family of proteins, each position in the consensus sequence is occupied by the amino acid occurring most frequently at that position in the family. If two amino acids occur equally frequently, either can be included in the consensus sequence. A “consensus framework” refers to the framework region in the consensus immunoglobulin sequence.

An antibody can be humanized by any suitable method, and several such methods known in the art (*see e.g.*, Morrison, S. L., 1985, *Science* 229:1202-1207, by Oi et al., 1986, *BioTechniques*

4:214, and by Queen et al. US 5,585,089, US 5,693,761 and US 5,693,762, the contents of all of which are hereby incorporated by reference).

Humanized or CDR-grafted antibodies can be produced by CDR-grafting or CDR substitution, wherein one, two, or all CDRs of an immunoglobulin chain can be replaced. *See e.g.*,
5 U.S. Patent 5,225,539; Jones et al. 1986 *Nature* 321:552-525; Verhoeyan et al. 1988 *Science* 239:1534; Beidler et al. 1988 *J. Immunol.* 141:4053-4060; Winter US 5,225,539, the contents of all of which are hereby expressly incorporated by reference. Winter describes a CDR-grafting method which may be used to prepare humanized antibodies (UK Patent Application GB 2188638A, filed on March 26, 1987; Winter US 5,225,539), the contents of which is expressly incorporated by reference.

10 Also provided are humanized antibodies in which specific amino acids have been substituted, deleted or added. Criteria for selecting amino acids from the donor are described in, *e.g.*, US 5,585,089, *e.g.*, columns 12-16 of US 5,585,089, the contents of which are hereby incorporated by reference. Other techniques for humanizing antibodies are described in Padlan et al. EP 519596 A1, published on December 23, 1992.

15 In an embodiment, the antibody molecule has a heavy chain constant region chosen from, *e.g.*, the heavy chain constant regions of IgG1, IgG2 (*e.g.*, IgG2a), IgG3, IgG4, IgM, IgA1, IgA2, IgD, and IgE; particularly, chosen from, *e.g.*, the (*e.g.*, human) heavy chain constant regions of IgG1, IgG2, IgG3, and IgG4. In another embodiment, the antibody molecule has a light chain constant region chosen from, *e.g.*, the (*e.g.*, human) light chain constant regions of kappa or lambda. The
20 constant region can be altered, *e.g.*, mutated, to modify the properties of the antibody molecule (*e.g.*, to increase or decrease one or more of: Fc receptor binding, antibody glycosylation, the number of cysteine residues, effector cell function, and/or complement function). In an embodiment, the antibody molecule has effector function and can fix complement. In another embodiment, the antibody molecule does not recruit effector cells or fix complement. In certain embodiments, the
25 antibody molecule has reduced or no ability to bind an Fc receptor. For example, it may be an isotype or subtype, fragment or other mutant, which does not support binding to an Fc receptor, *e.g.*, it has a mutagenized or deleted Fc receptor binding region.

In an embodiment, a constant region of the antibody molecule is altered. Methods for altering an antibody constant region are known in the art. Antibody molecules with altered function, *e.g.*
30 altered affinity for an effector ligand, such as FcR on a cell, or the C1 component of complement can be produced by replacing at least one amino acid residue in the constant portion of the antibody with a different residue (see *e.g.*, EP 388,151 A1, U.S. Pat. No. 5,624,821 and U.S. Pat. No. 5,648,260, the contents of all of which are hereby incorporated by reference). Amino acid mutations which stabilize antibody structure, such as S228P (EU nomenclature, S241P in Kabat nomenclature) in human IgG4
35 are also contemplated. Similar type of alterations could be described which if applied to the murine, or other species immunoglobulin would reduce or eliminate these functions.

In an embodiment, the only amino acids in the antibody molecule are canonical amino acids. In an embodiment, the antibody molecule comprises naturally-occurring amino acids; analogs, derivatives and congeners thereof; amino acid analogs having variant side chains; and/or all stereoisomers of any of any of the foregoing. The antibody molecule may comprise the D- or L-
5 optical isomers of amino acids and peptidomimetics.

A polypeptide of an antibody molecule described herein may be linear or branched, it may comprise modified amino acids, and it may be interrupted by non-amino acids. The antibody molecule may also be modified; for example, by disulfide bond formation, glycosylation, lipidation, acetylation, phosphorylation, or any other manipulation, such as conjugation with a labeling
10 component. The polypeptide can be isolated from natural sources, can be produced by recombinant techniques from a eukaryotic or prokaryotic host, or can be a product of synthetic procedures.

The antibody molecule described herein can be used alone in unconjugated form, or can be bound to a substance, *e.g.*, a toxin or moiety (*e.g.*, a therapeutic drug; a compound emitting radiation; molecules of plant, fungal, or bacterial origin; or a biological protein (*e.g.*, a protein toxin) or particle
15 (*e.g.*, a recombinant viral particle, *e.g.*, via a viral coat protein). For example, the antibody molecule can be coupled to a radioactive isotope such as an α -, β -, or γ -emitter, or a β - and γ -emitter.

An antibody molecule can be derivatized or linked to another functional molecule (*e.g.*, another peptide or protein). As used herein, a “derivatized” antibody molecule is one that has been modified. Methods of derivatization include but are not limited to the addition of a fluorescent
20 moiety, a radionucleotide, a toxin, an enzyme or an affinity ligand such as biotin. Accordingly, the antibody molecules are intended to include derivatized and otherwise modified forms of the antibodies described herein, including immunoadhesion molecules. For example, an antibody molecule can be functionally linked (by chemical coupling, genetic fusion, noncovalent association or otherwise) to one or more other molecular entities, such as another antibody (*e.g.*, a bispecific
25 antibody or a diabody), a detectable agent, a toxin, a pharmaceutical agent, and/or a protein or peptide that can mediate association of the antibody or antibody portion with another molecule (such as a streptavidin core region or a polyhistidine tag).

Some types of derivatized antibody molecule are produced by crosslinking two or more antibodies (of the same type or of different types, *e.g.*, to create bispecific antibodies). Suitable
30 crosslinkers include those that are heterobifunctional, having two distinctly reactive groups separated by an appropriate spacer (*e.g.*, m-maleimidobenzoyl-N-hydroxysuccinimide ester) or homobifunctional (*e.g.*, disuccinimidyl suberate). Such linkers are available from Pierce Chemical Company, Rockford, Ill.

Useful detectable agents with which an anti-dengue antibody molecule may be derivatized (or
35 labeled) to include fluorescent compounds, various enzymes, prosthetic groups, luminescent materials, bioluminescent materials, fluorescent emitting metal atoms, *e.g.*, europium (Eu), and other anthanides, and radioactive materials (described below). Exemplary fluorescent detectable agents

include fluorescein, fluorescein isothiocyanate, rhodamine, 5dimethylamine-1-naphthalenesulfonyl chloride, phycoerythrin and the like. An antibody may also be derivatized with detectable enzymes, such as alkaline phosphatase, horseradish peroxidase, β -galactosidase, acetylcholinesterase, glucose oxidase and the like. When an antibody is derivatized with a detectable enzyme, it is detected by
5 adding additional reagents that the enzyme uses to produce a detectable reaction product. For example, when the detectable agent horseradish peroxidase is present, the addition of hydrogen peroxide and diaminobenzidine leads to a colored reaction product, which is detectable. An antibody molecule may also be derivatized with a prosthetic group (*e.g.*, streptavidin/biotin and avidin/biotin). For example, an antibody may be derivatized with biotin, and detected through indirect measurement
10 of avidin or streptavidin binding. Examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; and examples of bioluminescent materials include luciferase, luciferin, and aequorin.

Labeled antibody molecules can be used, for example, diagnostically and/or experimentally in
15 a number of contexts, including (i) to isolate a predetermined antigen by standard techniques, such as affinity chromatography or immunoprecipitation; (ii) to detect a predetermined antigen (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the abundance and pattern of expression of the protein; (iii) to monitor protein levels in tissue as part of a clinical testing procedure, *e.g.*, to determine the efficacy of a given treatment regimen.

20 An antibody molecule may be conjugated to another molecular entity, typically a label or a therapeutic (*e.g.*, antimicrobial (*e.g.*, antibacterial or bactericidal), immunomodulatory, immunostimulatory, cytotoxic, or cytostatic) agent or moiety. Radioactive isotopes can be used in diagnostic or therapeutic applications. Radioactive isotopes that can be coupled to the antibody molecules include, but are not limited to α -, β -, or γ -emitters, or β - and γ -emitters. Such radioactive
25 isotopes include, but are not limited to iodine (^{131}I or ^{125}I), yttrium (^{90}Y), lutetium (^{177}Lu), actinium (^{225}Ac), praseodymium, astatine (^{211}At), rhenium (^{186}Re), bismuth (^{212}Bi or ^{213}Bi), indium (^{111}In), technetium ($^{99\text{m}}\text{Tc}$), phosphorus (^{32}P), rhodium (^{188}Rh), sulfur (^{35}S), carbon (^{14}C), tritium (^3H), chromium (^{51}Cr), chlorine (^{36}Cl), cobalt (^{57}Co or ^{58}Co), iron (^{59}Fe), selenium (^{75}Se), or gallium (^{67}Ga). Radioisotopes useful as therapeutic agents include yttrium (^{90}Y), lutetium (^{177}Lu), actinium (^{225}Ac),
30 praseodymium, astatine (^{211}At), rhenium (^{186}Re), bismuth (^{212}Bi or ^{213}Bi), and rhodium (^{188}Rh). Radioisotopes useful as labels, *e.g.*, for use in diagnostics, include iodine (^{131}I or ^{125}I), indium (^{111}In), technetium ($^{99\text{m}}\text{Tc}$), phosphorus (^{32}P), carbon (^{14}C), and tritium (^3H), or one or more of the therapeutic isotopes listed above.

In an aspect, this disclosure provides a method of making an IL-2 complex described herein.
35 The method includes, *e.g.*, contacting an IL-2 variant described herein with an anti-IL-2 antibody molecule (*e.g.*, an anti-IL-2 antibody molecule that binds to the IL-2 variant), to thereby producing the

IL-2 complex. In an embodiment, the method further comprises evaluating the efficacy of the IL-2 complex *in vitro*, *ex vivo*, or *in vivo*.

This disclosure provides an isolated nucleic acid molecule encoding an IL-2 complex (or a portion thereof) described herein, and vectors and host cells thereof. The nucleic acid molecule
5 includes, but is not limited to, RNA, genomic DNA and cDNA.

IL-2 Conjugates

In an embodiment, the IL-2 agent comprises a conjugate, *e.g.*, an IL-2 conjugate described herein.

10 In an embodiment, the IL-2 conjugate comprises an IL-2 variant described herein and a non-IL-2 moiety. In an embodiment, the IL-2 conjugate comprises one or more amino acid alterations (*e.g.*, substitutions) described in **Table 9**. In an embodiment, the IL-2 conjugate comprises an amino acid sequence described in **Table 9**, or a functional fragment thereof. In an embodiment, the non-IL-2 moiety comprises an antibody molecule, *e.g.*, an antibody molecule described herein. In an
15 embodiment, the non-IL-2 moiety comprises a polymer, *e.g.*, a polyether compound. In an embodiment, the polyether compound comprises polyethylene glycol (PEG). In an embodiment, the non-IL-2 moiety comprises a cytokine. The IL-2 variant can be coupled to the non-IL-2 moiety directly, or indirectly, *e.g.*, through a linker. In an embodiment, the IL-2 conjugate is an IL-2 fusion protein.

20 In an embodiment, the IL-2 conjugate comprises an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25,
25 SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
30 20, 25, or 30 amino acids thereto.

In an embodiment, the IL-2 conjugate is an immunoconjugate, *e.g.*, comprising an antibody molecule. In an embodiment, the IL-2 variant is coupled to the antibody molecule by a covalent bond. In an embodiment, the IL-2 variant is coupled to the antibody molecule by a peptide bond. In an embodiment, the IL-2 variant and the antibody molecule forms a fusion protein. In an
35 embodiment, the fusion protein comprises a linker between the IL-2 variant and the antibody molecule (*e.g.*, a heavy chain, a light chain, or both). In an embodiment, the IL-2 variant is coupled to

the antibody molecule by a non-peptide bond. In an embodiment, the IL-2 variant is not coupled to the antibody molecule by a non-peptide bond.

In an embodiment, the IL-2 variant is coupled to the backbone of the antibody molecule. In another embodiment, the IL-2 variant is coupled to a side chain of the antibody molecule. In an
5 embodiment, the antibody molecule is coupled to the backbone of the IL-2 variant. In an embodiment, the antibody molecule is coupled to a side-chain of the IL-2 variant.

In an embodiment, two or more (*e.g.*, three, four, five, six, seven, eight, or more) IL-2 variants are coupled to the antibody molecule. In an embodiment, four IL-2 variants are coupled to the antibody molecule. For example, the IL-2 variants can be the same, or at least some of the IL-2
10 variants are different from each other. In an embodiment, the IL-2 variant is coupled to the antibody molecule in a bivalent manner. In another embodiment, the IL-2 variant is coupled to the antibody molecule in a tetravalent manner.

In an embodiment, the IL-2 conjugate is produced by enzymatic synthesis. For example, IL-2 conjugates can be produced by chemical synthesis of an IL-2 variant, expression of an antibody
15 molecule, and enzymatic ligation of the IL-2 variant to the antibody molecule. In an embodiment, 90% or more, *e.g.*, 92% or more, 95% or more, 97% or more, or 99% or more, reaction efficiency is achieved. In another embodiment, the method further comprises purifying the ADC. In an embodiment, the yield is 60% or more (*e.g.*, 70% or more, 75% or more, 80% or more, 90% or more, or 95% or more) after purification.

In an aspect, the disclosure provides a combination of (a) an immunoconjugate comprising a
20 first antibody molecule having a reduced effector function and an IL-2 variant described herein, and (b) a second antibody molecule having an increased effector function, for use in treating a disorder, *e.g.*, a disorder described herein.

In an embodiment, the reduced effector function of the first antibody comprises reduced
25 binding to an activating Fc receptor, reduced ADCC, reduced ADCP, reduced CDC, reduced cytokine secretion, or a combination thereof. In an embodiment, the reduced effector function is reduced binding to an activating Fc receptor, *e.g.*, a human Fc receptor. In an embodiment, the activating Fc receptor is an Fcγ receptor. In an embodiment, the activating Fc receptor is FcγRIIIa, FcγRI, or FcγRIIa. In an embodiment, the reduced effector function comprises reduced ADCC. In an
30 embodiment, the increased effector function comprises reduced binding to an activating Fc receptor and reduced ADCC.

In an embodiment, the first antibody molecule comprises one or more amino acid mutations (*e.g.*, substitutions) in the Fc region as described herein. In an embodiment, the first antibody molecule comprises an amino acid substitution at position P329 of an immunoglobulin heavy chain.
35 In an embodiment, the amino acid substitution comprises P329A or P329G, *e.g.*, P329G. In an embodiment, the antibody molecule comprises a further amino acid substitution at a position of S228, E233, L234, L235, N297, P331, or a combination thereof, of an immunoglobulin heavy chain. In an

embodiment, the further amino acid substitution comprises S228P, E233P, L234A, L235A, L235E, N297A, N297D, P331S, or a combination thereof. In a particular embodiment the antibody comprises amino acid substitutions at positions P329, L234 and L235 of an immunoglobulin heavy chain. In an embodiment, the amino acid substitutions comprise L234A, L235A and P329G (LALA P329G).

5 In an embodiment, the first antibody molecule is directed to an antigen presented on a tumor cell or in a tumor cell environment. In an embodiment, the first antibody is directed to an antigen chosen from Fibroblast Activation Protein (FAP), the A1 domain of Tenascin-C (TNC A1), the A2 domain of Tenascin-C (TNC A2), the Extra Domain B of Fibronectin (EDB), Carcinoembryonic Antigen (CEA), and Melanoma-associated Chondroitin Sulfate Proteoglycan (MCSP).

10 In an embodiment the increased effector function of the second antibody molecule comprises increased binding to an activating Fc receptor, increased ADCC, increased ADCP, increased CDC, increased cytokine secretion, or a combination thereof. In an embodiment, the increased effector function comprises increased binding to an activating Fc receptor. In an embodiment, the activating Fc receptor is FcγRIIIa, FcγRI, or FcγRIIa. In an embodiment, the increased effector function
15 comprises increased ADCC. In an embodiment, the increased effector function comprises increased binding to an activating Fc receptor and increased ADCC.

In an embodiment, the second antibody molecule comprises one or more amino acid mutations (*e.g.*, substitutions) in the Fc region. In an embodiment, the second antibody molecule comprises a modification of the glycosylation in the Fc region. In an embodiment, the modification
20 of the glycosylation in the Fc region comprises an increased proportion of non-fucosylated oligosaccharides in the Fc region (*e.g.*, increased to at least 20%, 30%, 40%, 50%, 60%, 70%, 80%, or 90%) as compared to a non-modified antibody molecule. In an embodiment, the modification comprises an increased proportion of bisected oligosaccharides in the Fc region (*e.g.*, increased to at least 20%, 30%, 40%, 50%, 60%, 70%, 80%, or 90%), as compared to a non-modified antibody
25 molecule. In an embodiment, the modification of the glycosylation in the Fc region comprises an increased proportion of bisected, non-fucosylated oligosaccharides in the Fc region (*e.g.*, increased to at least 20%, 30%, 40%, 50%, 60%, 70%, 80%, or 90%), as compared to a non-modified antibody molecule.

In an embodiment, the second antibody molecule is directed to an antigen presented on a
30 tumor cell. In an embodiment, the second antibody molecule is directed to an antigen chosen from CD20, Epidermal Growth Factor Receptor (EGFR), HER2, HER3, Insulin-like Growth Factor 1 Receptor (IGF-1R), c-Met, CUB domain-containing protein-1 (CDCP1), Carcinoembryonic Antigen (CEA) and Melanoma-associated Chondroitin Sulfate Proteoglycan (MCSP).

In an embodiment, the disease is a disorder treatable by stimulation of effector cell function,
35 *e.g.*, a cancer. In an aspect, the disclosure provides a composition comprising: (a) an immunoconjugate comprising a first antibody molecule having a reduced effector function and an IL-

2 variant described herein, (b) a second antibody molecule having an increased effector function, and (c) a pharmaceutically acceptable carrier.

IL-2 Receptors

5 The IL-2 agents (*e.g.*, IL-2 variants, IL-2 fusion proteins, IL-2 complexes, or IL-2 conjugates) described herein can bind to an IL-2 receptor (IL-2R) and/or modulate one or more functions associated with an IL-2R.

10 IL-2R is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to IL-2. IL-2 receptor typically has three forms, generated by different combinations of three different chains: α (alpha) (also known as IL-2R α , CD25, or Tac antigen), β (beta) (also known as IL-2R β , or CD122), and γ (gamma) (also known as IL-2R γ , γ_c , common gamma chain, or CD132).

15 The IL-2R chains are expressed separately and differently on various cell types and can assemble in different combinations and orders to generate low, intermediate, and high affinity IL-2Rs. IL-2R α binds IL-2 with low affinity; IL-2R β and IL-2R γ together form a complex that binds IL-2 with intermediate affinity (*e.g.*, on memory T cells and NK cells); and IL-2R α , IL-2R β , and IL-2R γ together form a complex that binds IL-2 with high affinity (*e.g.*, on activated T cells and regulatory T cells).

20 IL-2R β and IL-2R γ complex with Janus kinase 1 (JAK1) and Janus kinase 3 (JAK3), respectively. The binding of IL-2 to IL-2R can activate JAK1/JAK2 and initiate downstream intracellular signaling, *e.g.*, the MAP kinase pathway, the Phosphoinositide 3-kinase (PI3K) pathway, or the JAK-STAT pathway (Liao *et al.*, *Curr Opin Immunol.* 2011; 23(5): 598-604; Malek and Castro. *Immunity.* 2010; 33(2): 153-165).

25 IL-2R plays important roles in the immune system, tolerance and immunity. For example, the interaction between IL-2 and IL-2R is involved in promoting the differentiation of certain immature T cells into regulatory T cells, and the differentiation of T cells into effector T cells and into memory T cells. The interaction between IL-2 and IL-2R is also associated with autoimmune diseases, infections, and cell-mediated immunity.

30 In an aspect, the disclosure provides IL-2 agents comprising an IL-2 variant described herein that has an altered binding affinity to an IL-2R, *e.g.*, one, two, or all of IL-2R α , IL-2R β , or IL-2R γ . For example, the IL-2 variant can have one or more (*e.g.*, two, three, four, five, or more) amino acid alternations (*e.g.*, substitutions or mutations) associated with the interaction between IL-2 and IL-2R, *e.g.*, one, two, or all of IL-2R α , IL-2R β , or IL-2R γ .

35 In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R α . In an embodiment, the binding affinity to IL-2R α is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant. In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced)

binding affinity to IL-2R β . In an embodiment, the binding affinity to IL-2R β is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant. In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R γ . In an embodiment, the binding affinity to IL-2R γ is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R α and an altered (*e.g.*, reduced) binding affinity to IL-2R β . In an embodiment, the binding affinity to IL-2R α is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, and the binding affinity to IL-2R β is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more. In an embodiment, the binding affinities to IL-2R α and IL-2R β are reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R α and an altered (*e.g.*, reduced) binding affinity to IL-2R γ . In an embodiment, the binding affinity to IL-2R α is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, and the binding affinity to IL-2R γ is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more. In an embodiment, the binding affinities to IL-2R α and IL-2R γ are reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R β and an altered (*e.g.*, reduced) binding affinity to IL-2R γ . In an embodiment, the binding affinity to IL-2R β is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, and the binding affinity to IL-2R γ is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more. In an embodiment, the binding affinities to IL-2R β and IL-2R γ are reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

In an embodiment, the IL-2 agent has an altered (*e.g.*, reduced) binding affinity to IL-2R α , an altered (*e.g.*, reduced) binding affinity to IL-2R β , and an altered (*e.g.*, reduced) binding affinity to IL-2R γ . In an embodiment, the binding affinity to IL-2R α is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, the binding affinity to IL-2R β is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, and the binding affinity to IL-2R γ is reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more. In an embodiment, the binding affinities to IL-2R α , IL-2R β , and IL-2R γ are reduced by about 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, or more, relative to an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

In an embodiment, the binding affinity of an IL-2 agent provided by the disclosure to any of IL-2R α , IL-2R β , or IL-2R γ is reduced, but not abolished. For example, the reduction can range from about 10% to about 90%, *e.g.*, from about 20% to about 80%, from about 30% to about 70%, from about 40% to about 60%, from about 10% to about 50%, or from about 50% to about 90%, relative to
 5 an IL-2 agent comprising a wild-type IL-2 or an IL-2 agent comprising a reference IL-2 variant.

Fc Region

The present disclosure provides IL-2 agents (*e.g.*, IL-2 variants, fusion polypeptides, complexes, or immunoconjugates) comprising an Fc region or a fragment thereof, *e.g.*, an Fc region,
 10 or a fragment thereof (*e.g.*, a functional fragment thereof), described herein.

In an embodiment, the IL-2 agent comprises an IL-2 variant described herein and an Fc region described herein. In an embodiment, the IL-2 agent further comprises a linker between the IL-2 variant and the Fc region. In an embodiment, the IL-2 agent comprises an IL-2 fusion protein comprising an Fc region described herein. In an embodiment, the Fc region comprises one or more
 15 mutations described herein.

A fragment crystallizable region, or Fc region, refers to a region of an immunoglobulin that interacts with an Fc receptor. In an embodiment, the Fc region interacts with a protein of the complement system. While without wishing to be bound by theory, it is believed that in an embodiment, the interaction between the Fc region with an Fc receptor, allows for activation of
 20 the immune system.

In IgG, IgA and IgD antibody isotypes, the naturally-occurring Fc region generally comprises two identical protein fragments, derived from the second and third constant domains of the antibody's two heavy chains. Naturally-occurring IgM and IgE Fc regions generally comprise three heavy chain constant domains (C_H domains 2–4) in each polypeptide chain. The Fc regions of IgGs can contain a
 25 highly conserved N-glycosylation site (Stadlmann *et al.* (2008). *Proteomics* 8 (14): 2858–2871; Stadlmann (2009) *Proteomics* 9 (17): 4143–4153). While not wishing to be bound by theory, it is believed that in an embodiment, glycosylation of the Fc fragment contributes to Fc receptor-mediated activities (Peipp *et al.* (2008) *Blood* 112 (6): 2390–2399). In an embodiment, the N-glycans attached to this site are predominantly core-fucosylated diantennary structures of the complex type. In another
 30 embodiment, small amounts of these N-glycans also contain bisecting GlcNAc and/or α -2,6 linked sialic acid residues.

An exemplary fragment of an Fc region amino acid sequence from human IgG1 is provided in SEQ ID NO: 40 and is shown below:

DKTHTCPPCPAPELLGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK
 35 TKPREEQYGSTYRVVSVLTVLH $\underline{\text{H}}$ QDWLNGKEYKCKVSNKALPAPIEKTI SKAKGQPREPQVYTLPPSRD
 ELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFS
 CSVMHEALH $\underline{\text{H}}$ HYTQKSLSLSPGK (SEQ ID NO: 40)

In SEQ ID NO: 40, the first amino acid residue in this sequence is referred to as position 221 herein. The three histidine residues shown in bold and underlined are positions 310, 433 and 435, respectively.

An IL-2 agent comprising an Fc region or fragment thereof (*e.g.*, IL-2-Fc fusion protein) described herein can have one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, or more) of mutations or combinations of mutations described in **Table 1** (*e.g.*, according to EU numbering).

Table 1. Exemplary Fc mutations

Name	Mutation
FcMut001	I253M
FcMut002	L309H_D312A_N315D
FcMut003	L309N
FcMut004	M252E_S254R
FcMut005	M252E_S254R_R255Y
FcMut006	S254H
FcMut007	S254M
FcMut008	T256D_T307R
FcMut009	T256L_N286I_T307I
FcMut010	T256I_N286I_T307I
FcMut011	K248S_D376Q
FcMut012	K248S_D376N
FcMut013	D376Q_E380A
FcMut014	D376N_E380A
FcMut015	D376Q_M428L
FcMut016	K248S_A378I
FcMut017	L314K
FcMut018	T250Q_M428L
FcMut019	M428L_N434A
FcMut020	N434A
FcMut021	T307A_E380A_N434A
FcMut022	M252W
FcMut023	V308F
FcMut024	V308F_N434Y
FcMut026	T256D_T307R_D376N
FcMut027	L309R_D312E
FcMut028	L309R_Q311P_D312E
FcMut029	K246N_P247A
FcMut030	K246N_P247A_D376N
FcMut031	T256E_T307R
FcMut032	T256R_T307D
FcMut033	T256R_T307E
FcMut034	Q311P
FcMut035	D376Q
FcMut036	L234A_L235A
FcMut037	L235V_G236A

FcMut038	L234P_L235P
FcMut039	L235P
FcMut040	P329G
FcMut041	P329E
FcMut042	E233K
FcMut043	T256D_N286D_A287S_T307R
FcMut044	T256D_P257L_T307R
FcMut045	T256D_T307R_Q311V
FcMut046	P247D_T256D_T307R
FcMut047	P247D_N286D_A287S_Q311V
FcMut048	P257M_V308N
FcMut049	V279I_Q311L_N315T
FcMut050	M428L_N434S
FcMut051	N434S
FcMut052	H433G_N434P
FcMut053	V259I_V308F_M428L
FcMut067	T256D_N286D_T307R
FcMut068	T256D_N286E_T307R
FcMut069	T256D_N286Q_T307R
FcMut070	T256D_P257T_T307R
FcMut071	T256D_P257V_T307R
FcMut072	T256D_T307R_Q311I
FcMut073	T256D_T307R_Q311L
FcMut074	T256D_T307R_Q311M
FcMut075	T256D_P257L_N286D_T307R_Q311V
FcMut076	T256D_T307R_M428L
FcMut077	M428L
FcMut078	M252Y_S254T_T256Q
FcMut079	M252Y_S254T_T256E_K288E
FcMut080	T256K_K288E
FcMut081	T256D_E258T
FcMut082	E283Q_H285E
FcMut083	R344D_D401R
FcMut084	K248E_E380K
FcMut085	K248E_E380R
FcMut086	K246H
FcMut087	K248H
FcMut088	T250I
FcMut089	T250V
FcMut090	L251F
FcMut091	L251M
FcMut093	P257V
FcMut094	N276D
FcMut095	H285N
FcMut096	H285D
FcMut097	K288H
FcMut098	K288Q
FcMut099	K288E
FcMut100	T307E

FcMut101	T307Q
FcMut102	V308P
FcMut103	V308I
FcMut104	V308L
FcMut105	L309H
FcMut106	L309M
FcMut107	Q311H
FcMut108	L314F
FcMut109	Y319H
FcMut110	I336T
FcMut111	P343D
FcMut112	P343V
FcMut113	E345Q
FcMut114	P346V
FcMut115	P374T
FcMut116	D376N
FcMut117	A378S
FcMut118	A431T
FcMut119	A431P
FcMut120	A431G
FcMut121	L432V
FcMut122	L432I
FcMut123	L432Q
FcMut124	N434T
FcMut125	H435N
FcMut126	Y436H
FcMut127	K439Q
FcMut128	T256D
FcMut129	T307R
FcMut130	A378T
FcMut131	A378D
FcMut132	A378H
FcMut133	A378Y
FcMut134	A378V
FcMut135	D376R
FcMut136	D376F
FcMut137	D376W
FcMut138	L314H
FcMut139	L432E_T437Q
FcMut140	D376Q_A378T
FcMut141	D376Q_I377M_A378T
FcMut142	P244Q_D376Q
FcMut143	P247T_A378T
FcMut144	P247N_A378T
FcMut145	T256D_T307R_L309T
FcMut146	A339T_S375E_F404Y
FcMut147	L235V_G236A_T256D_T307R
FcMut148	L235V_G236A_D376Q_M428L
FcMut149	L314N

FcMut150	N315D
FcMut151	A378T
FcMut152	T437Q
FcMut153	L432E
FcMut154	Y436R
FcMut155	L314M
FcMut156	L234A_L235A_T256D_T307R_Q311V
FcMut157	L234A_L235A_T256D_P257V_T307R
FcMut158	L234A_L235A_T256D_P257L_N286D_T307R_Q311V
FcMut159	L235V_G236A_T256D_T307R_Q311V
FcMut160	L235V_G236A_T256D_P257V_T307R
FcMut161	L235V_G236A_T256D_P257L_N286D_T307R_Q311V
FcMut162	S267T_A327N_A330M
FcMut163	S267T_A327N
FcMut164	L235V_G236A_S267T_A327N_A330M
FcMut165	L235V_G236A_S267T_A327N
FcMut166	M252Y_S254T
FcMut167	T256E
FcMut168	G236A_I332E
FcMut169	S239D_I332E
FcMut170	G236A_S239D_I332E
FcMut171	T256D_N286D_T307R_Q311V
FcMut172	T256D_E258T_T307R
FcMut173	T256D_E258T_T307R_Q311V
FcMut174	T256D_P257V_E258T_T307R
FcMut175	T256D_P257L_E258T_N286D_T307R_Q311V
FcMut176	T256D_E258T_N286D_T307R_Q311V
FcMut177	A378V_M428L
FcMut178	A378V_M428I
FcMut179	A378V_M428V
FcMut180	T256D_N286D
FcMut181	T256D_A378V
FcMut182	T256D_Q311V
FcMut183	T256D_Q311V_A378V
FcMut184	T256D_T307R_A378V
FcMut185	T256D_N286D_T307R_A378V
FcMut186	T256D_T307R_Q311V_A378V
FcMut187	H285D_A378V
FcMut188	H285D_Q311V
FcMut189	T256D_H285D
FcMut190	T256D_H285D_Q311V
FcMut191	T256D_H285D_T307R
FcMut192	T256D_H285D_T307R_A378V
FcMut193	H285D_L314M_A378V
FcMut194	T256D_E258T_H285D_Q311H
FcMut195	T256D_E258T_H285D
FcMut196	H285D_N315D
FcMut197	H285N_T307Q_N315D
FcMut198	H285D_L432E_T437Q

FcMut199	T256D_E258T_N315D
FcMut200	P257V_H285N
FcMut201	H285N_L432F
FcMut202	H285N_T437I
FcMut203	T256D_E258T_L314M
FcMut204	T256D_E258T_T307Q
FcMut205	T256D_E258T_A378V
FcMut206	V308P_A378V
FcMut207	P257V_A378T
FcMut208	P257V_V308P_A378V
FcMut209	N315D_A378T
FcMut210	H285N_L314M
FcMut211	L314M_L432E_T437Q
FcMut212	T307Q_N315D
FcMut213	H285D_T307Q_A378V
FcMut214	L314M_N315D
FcMut215	T307Q_Q311V_A378V
FcMut216	H285D_Q311V_A378V
FcMut217	Q311V_N315D_A378V
FcMut218	T256D_E258T_Q311V
FcMut219	T256D_N315D_A378V
FcMut220	T256D_Q311V_N315D
FcMut221	T256D_T307Q_A378V
FcMut222	T256D_T307Q_Q311V
FcMut223	T256D_H285D_A378V
FcMut224	T256D_H285D_T307R_Q311V
FcMut225	T256D_H285D_N286D_T307R
FcMut226	T256D_H285D_N286D_T307R_Q311V
FcMut227	T256D_H285D_N286D_T307R_A378V
FcMut228	T256D_N286D_T307R_Q311V_A378V
FcMut229	T256D_H285D_T307R_Q311V_A378V
FcMut230	V308P_Q311V_A378V
FcMut231	T256D_V308P_A378V
FcMut232	T256D_V308P_Q311V
FcMut233	T256D_E258T_V308P
FcMut234	H285D_V308P_Q311V
FcMut242	E258T
FcMut243	N286D
FcMut244	Q311V
YTE	M252Y_S254T_T256E

In an embodiment, the Fc region comprises FcMut001. In an embodiment, the Fc region comprises FcMut002. In an embodiment, the Fc region comprises FcMut003. In an embodiment, the Fc region comprises FcMut004. In an embodiment, the Fc region comprises FcMut005. In an embodiment, the Fc region comprises FcMut006. In an embodiment, the Fc region comprises FcMut007. In an embodiment, the Fc region comprises FcMut008. In an embodiment, the Fc region comprises FcMut009. In an embodiment, the Fc region comprises FcMut010. In an embodiment, the

comprises FcMut220. In an embodiment, the Fc region comprises FcMut221. In an embodiment, the Fc region comprises FcMut222. In an embodiment, the Fc region comprises FcMut223. In an embodiment, the Fc region comprises FcMut224. In an embodiment, the Fc region comprises FcMut225. In an embodiment, the Fc region comprises FcMut226. In an embodiment, the Fc region comprises FcMut227. In an embodiment, the Fc region comprises FcMut228. In an embodiment, the Fc region comprises FcMut229. In an embodiment, the Fc region comprises FcMut230. In an embodiment, the Fc region comprises FcMut231. In an embodiment, the Fc region comprises FcMut232. In an embodiment, the Fc region comprises FcMut233. In an embodiment, the Fc region comprises FcMut234. In an embodiment, the Fc region comprises FcMut242. In an embodiment, the Fc region comprises FcMut243. In an embodiment, the Fc region comprises FcMut244.

In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, or more) of mutations or combinations of mutations chosen from FcMut045, FcMut171, FcMut183, FcMut186, FcMut190, FcMut197, FcMut213, FcMut215, FcMut216, FcMut219, FcMut222, FcMut223, FcMut224, FcMut226, FcMut227, FcMut228, or FcMut229. In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, 6, or all) of mutations or combinations of mutations chosen from FcMut045, FcMut183, FcMut197, FcMut213, FcMut215, FcMut228, or FcMut156. In another embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, or all) of mutations or combinations of mutations chosen from FcMut183, FcMut197, FcMut213, FcMut215, FcMut228, or FcMut229.

In an embodiment, the Fc region does not comprise one or more (*e.g.*, 2, 3, 4, or all) of mutations or combinations of mutations chosen from FcMut018, FcMut021, FcMut050, FcMut102, or YTE. In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, or all) of mutations or combinations of mutations chosen from FcMut018, FcMut021, FcMut050, FcMut102, or YTE, and one or more other mutations or combinations of mutations described in **Table 1**.

In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, or more) of mutations or combinations of mutations described in **Table 1** that result in a synergistic effect (*e.g.*, binding affinity or circulating half-life) as described herein.

In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, 6, or 7) mutations in residues chosen from T256, H285, N286, T307, Q311, N315, or A378. In an embodiment, the Fc region comprises one or more (*e.g.*, 2, 3, 4, 5, 6, or 7) mutations chosen from T256D, H285N, N286D, T307Q, Q311V, N315D, or A378V.

In an embodiment, the Fc region comprises a half-life enhancing mutation, a mutation that is capable of disrupting an Fc effector function, or both. In an embodiment, the Fc region comprises one or more mutations or combinations of mutations described herein, *e.g.*, chosen from M252W, V308F/N434Y, R255Y, P257L/N434Y, V308F, P257N/M252Y, G385N, P257N/V308Y, N434Y, M252Y/S254T/T256E (“YTE”), M428L/N434S (“LS”), or any combination thereof. Alternatively, or additionally, in an embodiment, the Fc region comprises (a) one or more (*e.g.*, 2, 3, 4, 5, or all)

combinations of mutations chosen from: T256D/Q311V/A378V, H285N/T307Q/N315D, H285D/T307Q/A378V, T307Q/Q311V/A378V, T256D/N286D/T307R/Q311V/A378V, or T256D/T307R/Q311V; (b) a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, N297G, L234A/L235A (also known as “LALA” mutation),

5 L234A/L235A/P329G (also known as “LALAPG” mutation), or (c) both (a) and (b).

In an embodiment, the Fc region comprises mutations T256D/Q311V/A378V and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. In an embodiment, the Fc region comprises mutations H285N/T307Q/N315D and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. In an embodiment, the Fc region comprises mutations H285D/T307Q/A378V and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. In an embodiment, the Fc region comprises mutations T307Q/Q311V/A378V and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. In an embodiment, the Fc region comprises mutations T256D/N286D/T307R/Q311V/A378V and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. In an embodiment, the Fc region comprises mutations T256D/T307R/Q311V and a mutation or a combination of mutations capable of disrupting an Fc effector function, *e.g.*, L234A/L235A. Other exemplary Fc mutations are described, *e.g.*, in International Application Publication No. WO2018/052556, U.S. Application Publication No. US2018/0037634, and Booth et al. MAb. 2018; 10(7): 1098-1110, the contents of which are incorporated by reference in their entirety.

In an embodiment the Fc region comprises the Fc region of human IgG1, *e.g.*, human IgG1 m3 allotype. In an embodiment, the Fc region comprises the mutation N297G. In an embodiment, the Fc region comprises the Fc region of human IgG1 allotype m3, human IgG1 allotype m3 comprising the mutation N297G and/or other mutations of the Fc region of human IgG1 allotype m3, or a fragment thereof. In an embodiment, the Fc region comprises the sequence of SEQ ID NO: 1003, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.

30 Any of the mutations in the Fc region that extend half-life described herein can be used in combination with any Fc mutation capable of enhancing or disrupting an Fc effector function.

In an embodiment the Fc region comprises the Fc region of human IgG4, human IgG4 containing S228P mutation, and/or R409K mutation, and/or other mutations of the Fc region of human IgG4, or a fragment thereof. An exemplary fragment of an Fc region amino acid sequence from human IgG4 is provided in SEQ ID NO: 44 and is shown below:

E₂₁₉SKYGPPCP**P**₂₂₈CPAPEFLGGPSV₂₄₀FLFPPKPKD**T**₂₅₀LMISRTPEVT₂₆₀CVVVDVSQED₂₇₀PEVQ
FNWYVD₂₈₀GVEVHNAK**T**₂₉₀PREEQFNSTY₃₀₀RVVSVL**T**₃₀₇VLH**Q**₃₁₁DWLNGKEYK₃₂₀CKVSNKGLPS₃

³⁰SIEKTIISKAK₃₄₀GQPREPQVYT³⁵⁰LPQSQEEMTK₃₆₀NQVSLTCLVK₃₇₀GFYPSDIA₃₇₈VEWESNGQP
ENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMEALHNNHYTQKLSLSLGLGK (SEQ ID
NO: 44)

In SEQ ID NO: 44, the first amino acid residue in this sequence is referred to as position 219
5 herein. Mutations described to extend the half-life of human IgG1 can be applied to human IgG4 Fc.
For example, Mut215 corresponds to mutations T307Q/Q311V/A378V in SEQ ID NO: 44.

The Fc region can bind to various cell receptors (*e.g.*, Fc receptors) and complement proteins.
The Fc region can also mediate different physiological effects of antibody molecules, *e.g.*, detection
of opsonized particles; cell lysis; degranulation of mast cells, basophils, and eosinophils; and other
10 processes.

There are several different types of Fc receptors (FcR), which can be classified based on the
type of antibody that they recognize.

Fc γ receptors (Fc γ R) belong to the immunoglobulin superfamily, and are involved, *e.g.*, in
inducing phagocytosis of opsonized microbes. This family includes several members, Fc γ RI (CD64),
15 Fc γ RIIA (CD32), Fc γ RIIB (CD32), Fc γ RIIIA (CD16a), Fc γ RIIIB (CD16b), which differ in their
antibody affinities due to their different molecular structure. For instance, Fc γ RI can bind to IgG
more strongly than Fc γ RII or Fc γ RIII does. Fc γ RI also has an extracellular portion comprising three
immunoglobulin (Ig)-like domains, one more domain than Fc γ RII or Fc γ RIII has. This property
allows Fc γ RI to bind a sole IgG molecule (or monomer), but Fc γ receptors generally need to bind
20 multiple IgG molecules within an immune complex to be activated.

The Fc γ receptors differ in their affinity for IgG and the different IgG subclasses can have
unique affinities for each of the Fc γ receptors. These interactions can be further tuned by the glycan
(oligosaccharide) at certain position of IgG. For example, by creating steric hindrance, fucose
containing CH2-84.4 glycans reduce IgG affinity for Fc γ RIIIA, whereas G0 glycans, which lack
25 galactose and terminate instead with GlcNAc moieties, have increased affinity for Fc γ RIIIA
(Maverakis *et al.* (2015) *Journal of Autoimmunity* 57 (6): 1-13).

The neonatal Fc receptor (FcRn) is expressed on multiple cell types and is similar in structure
to MHC class I. This receptor also binds IgG and is involved in preservation of this antibody (Zhu *et*
al. (2001). *Journal of Immunology* 166 (5): 3266–76.). FcRn is also involved in transferring IgG from
30 a mother either via the placenta to her fetus or in milk to her suckling infant. This receptor may also
play a role in the homeostasis of IgG serum levels.

Fc α RI (or CD89) belongs to the Fc α R subgroup. Fc α RI is found on the surface of
neutrophils, eosinophils, monocytes, macrophages (including Kupffer cells), and dendritic cells. It
comprises two extracellular Ig-like domains and is a member of both the immunoglobulin superfamily
and the multi-chain immune recognition receptor (MIRR) family. It signals by associating with two
35 Fc γ signaling chains.

Fc-alpha/mu receptor (Fc α / μ R) is a type I transmembrane protein. It can bind IgA, although it has higher affinity for IgM (Shibuya and Honda (2006) *Springer Seminars in Immunopathology* 28 (4): 377–82). With one Ig-like domain in its extracellular portion, this Fc receptor is also a member of the immunoglobulin superfamily.

5 There are two known types of Fc ϵ R. The high-affinity receptor Fc ϵ RI is a member of the immunoglobulin superfamily (it has two Ig-like domains). Fc ϵ RI is found on epidermal Langerhans cells, eosinophils, mast cells and basophils. This receptor can play a role in controlling allergic responses. Fc ϵ RI is also expressed on antigen-presenting cells, and controls the production of immune mediators, *e.g.*, cytokines that promote inflammation (von Bubnoff et al. (2003) *Clinical and*
10 *Experimental Dermatology* 28 (2): 184–7). The low-affinity receptor Fc ϵ RII (CD23) is a C-type lectin. Fc ϵ RII has multiple functions as a membrane-bound or soluble receptor. It can also control B cell growth and differentiation and blocks IgE-binding of eosinophils, monocytes, and basophils (Kikutani et al. (1989) *Ciba Foundation Symposium* 147: 23–31).

In an embodiment, the Fc region can be engineered to contain an antigen-binding site to
15 generate an Fcab fragment (Wozniak-Knopp et al. (2010) *Protein Eng Des* 23 (4): 289–297). Fcab fragments can be inserted into a full immunoglobulin by swapping the Fc region, thus obtaining a bispecific antibody (with both Fab and Fcab regions containing distinct binding sites).

The binding and recycling of FcRn can be illustrated below. For example, IgG and albumin are internalized into vascular endothelial cells through pinocytosis. The pH of the endosome is 6.0,
20 facilitating association with membrane-bound FcRn. The contents of endosomes can be processed in one of two ways: either recycling back to the apical cell membrane or transcytosis from the apical to the basolateral side. IgG not associated with FcRn is degraded by lysosomes.

While not wishing to be bound by theory, it is believed that FcRn interaction with IgG is mediated through Fc. The binding of Fc to FcRn is pH specific, *e.g.*, no significant binding at pH 7.4
25 and strong binding in acidic environment. Structure of FcRn in complex with Fc domain of IgG1 molecule is described, *e.g.*, in FIG. 1 of International Application Publication No. WO2018/052556 or U.S. Application Publication No. US2018/0037634. Each FcRn molecule generally binds to an Fc-monomer. In an embodiment, Fab domains can also influence binding of IgG to FcRn, *e.g.*, have either a negative or no influence on the affinity of the IgG for FcRn.

30 There can be multiple considerations when an Fc region is engineered to enhance half-life of a polypeptide. For example, prolonging half-life and efficient recirculation of antibody molecules or fusion proteins often requires pH specific affinity enhancement (*e.g.*, only at low pH of the endosome). FcRn binds proximal to the linker region between CH2 and CH3 domains of a Fc region. Modifications to the linker can impact Fc engagement with Fc γ receptors. Modifications on the Fc
35 region can impact thermal stability and aggregation properties of the polypeptide.

Pharmaceutical Compositions and Kits

The present disclosure provides compositions, *e.g.*, pharmaceutical compositions, which include an IL-2 agent described herein, and optionally a pharmaceutically acceptable carrier.

As used herein, “pharmaceutically acceptable carrier” includes any and all solvents, dispersion media, isotonic and absorption delaying agents, and the like that are physiologically compatible. The carrier can be suitable for intravenous, intramuscular, subcutaneous, parenteral, rectal, spinal or epidermal administration (*e.g.*, by injection or infusion). In an embodiment, less than about 5%, *e.g.*, less than about 4%, 3%, 2%, or 1% of the IL-2 agents in the composition are present as aggregates. In an embodiment, at least about 95%, *e.g.*, at least about 96%, 97%, 98%, 98.5%, 99%, 99.5%, 99.8%, or more of the IL-2 agents in the composition are present as monomers. In an embodiment, at least about 95%, *e.g.*, at least about 96%, 97%, 98%, 98.5%, 99%, 99.5%, 99.8%, or more of the IL-2 agents in the composition are present as dimers. In an embodiment, the level of aggregates, dimers, or monomers is determined by chromatography, *e.g.*, high performance liquid chromatography size exclusion chromatography (HPLC-SEC). In an embodiment, the IL-2 agent is formulated together with the pharmaceutically acceptable carrier.

The compositions set out herein may be in a variety of forms. These include, for example, liquid, semi-solid and solid dosage forms, such as liquid solutions (*e.g.*, injectable and infusible solutions), dispersions or suspensions, liposomes, and suppositories. A suitable form depends on the intended mode of administration and therapeutic application. Typical suitable compositions are in the form of injectable or infusible solutions. One suitable mode of administration is parenteral (*e.g.*, intravenous, subcutaneous, intraperitoneal, intramuscular). In an embodiment, the IL-2 agent is administered by intravenous infusion or injection. In another embodiment, the IL-2 agent is administered by intramuscular or subcutaneous injection. In an embodiment, the IL-2 agent is administered subcutaneously (*e.g.*, presented in an autoinjector or prefilled syringe).

The terms “parenteral administration” and “administered parenterally” as used herein means modes of administration other than enteral and topical administration, usually by injection, and includes, without limitation, intravenous, intramuscular, intraarterial, intrathecal, intracapsular, intraorbital, intracardiac, intradermal, intraperitoneal, transtracheal, subcutaneous, subcuticular, intraarticular, subcapsular, subarachnoid, intraspinal, epidural and intrasternal injection and infusion.

Pharmaceutical compositions (*e.g.*, for therapeutic applications) typically should be sterile and stable under the conditions of manufacture and storage. The composition can be formulated as a solution, microemulsion, dispersion, liposome, or other ordered structure suitable to high antibody concentration. Sterile injectable solutions can be prepared by incorporating the active compound (*i.e.*, antibody or antibody portion) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle that contains a basic dispersion medium and the required other ingredients from those enumerated above.

In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying that yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof. The proper fluidity of a solution can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. Prolonged absorption of injectable compositions can be brought about by including in the composition an agent that delays absorption, for example, monostearate salts and gelatin.

The IL-2 agents described herein can be administered by a variety of methods. Several are known in the art, and for many therapeutic, prophylactic, or diagnostic applications, an appropriate route/mode of administration is intravenous injection or infusion. For example, the IL-2 agents can be administered by intravenous infusion at a rate of less than 10mg/min; preferably less than or equal to 5 mg/min to reach a dose of about 1 to 100 mg/m², preferably about 5 to 50 mg/m², about 7 to 25 mg/m² and more preferably, about 10 mg/m². As will be appreciated by the skilled artisan, the route and/or mode of administration will vary depending upon the desired results. In certain embodiments, the active compound may be prepared with a carrier that will protect the compound against rapid release, such as a controlled release formulation, including implants, transdermal patches, and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Many methods for the preparation of such formulations are patented or generally known to those skilled in the art. See, *e.g.*, *Sustained and Controlled Release Drug Delivery Systems*, J. R. Robinson, ed., Marcel Dekker, Inc., New York, 1978.

In an embodiment, the IL-2 agent is orally administered, for example, with an inert diluent or an assimilable edible carrier. The IL-2 agent (and other ingredients, if desired) may also be enclosed in a hard or soft shell gelatin capsule, compressed into tablets, or incorporated directly into the subject's diet. For oral therapeutic administration, the IL-2 agent may be incorporated with excipients and used in the form of ingestible tablets, buccal tablets, troches, capsules, elixirs, suspensions, syrups, wafers, and the like. To administer an IL-2 agent by other than parenteral administration, it may be necessary to coat the compound with, or co-administer the compound with, a material to prevent its inactivation. Therapeutic, prophylactic, or diagnostic compositions can also be administered with medical devices, and several are known in the art.

Dosage regimens are adjusted to provide the desired response (*e.g.*, a therapeutic, prophylactic, or diagnostic response). For example, a single bolus may be administered, several divided doses may be administered over time or the dose may be proportionally reduced or increased as indicated by the exigencies of the therapeutic situation. It is especially advantageous to formulate parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subjects to be treated; each unit contains a predetermined quantity of active compound calculated to

produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms are dictated by and directly dependent on (a) the unique characteristics of the antibody molecule and the particular therapeutic, prophylactic, or diagnostic effect to be achieved, and (b) the limitations inherent in the art of compounding such an antibody molecule for the treatment of sensitivity in individuals.

An exemplary, non-limiting range for a therapeutically, prophylactically, or diagnostically effective amount of an IL-2 agent is about 0.1-50 mg/kg, *e.g.*, about 0.1-30 mg/kg, *e.g.*, about 1-30, 1-15, 1-10, 1-5, 5-10, or 1-3 mg/kg, *e.g.*, about 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, or 50 mg/kg. The IL-2 agent can be administered by intravenous infusion at a rate of less than 10 mg/min, *e.g.*, less than or equal to 5 mg/min to reach a dose of about 1 to 100 mg/m², *e.g.*, about 5 to 50 mg/m², about 7 to 25 mg/m², *e.g.*, about 10 mg/m². It is to be noted that dosage values may vary with the type and severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions, and that dosage ranges set forth herein are exemplary only and are not intended to limit the scope or practice of the claimed compositions.

The pharmaceutical compositions herein may include a “therapeutically effective amount,” “prophylactically effective amount,” or “diagnostically effectively amount” of an IL-2 agent described herein.

A “therapeutically effective amount” refers to an amount effective, at dosages and for periods of time necessary, to achieve the desired therapeutic result. A therapeutically effective amount of the polypeptide (*e.g.*, antibody molecule or fusion protein) may vary according to factors such as the disease state, age, sex, and weight of the individual, and the ability of the antibody or antibody portion to elicit a desired response in the individual. A therapeutically effective amount is also one in which any toxic or detrimental effect of the antibody molecule is outweighed by the therapeutically beneficial effects. A “therapeutically effective dosage” typically inhibits a measurable parameter by at least about 20%, *e.g.*, by at least about 40%, by at least about 60%, or by at least about 80% relative to untreated subjects. The measurable parameter may vary, *e.g.*, based on the disordered being treated. The ability of an IL-2 agent to inhibit a measurable parameter can be evaluated in an animal model system predictive of efficacy in treating or preventing a disorder described herein.

Alternatively, this property of a composition can be evaluated by examining the ability of the IL-2 agent to modulate a biological function of a target molecule or cell, *e.g.*, by an *in vitro* assay.

A “prophylactically effective amount” refers to an amount effective, at dosages and for periods of time necessary, to achieve the desired prophylactic result. Typically, since a prophylactic dose is used in subjects prior to or at an earlier stage of disease, the prophylactically effective amount will be less than the therapeutically effective amount.

A “diagnostically effective amount” refers to an amount effective, at dosages and for periods of time necessary, to achieve the desired diagnostic result. Typically, a diagnostically effective amount is one in which a disorder, *e.g.*, a disorder described herein, can be diagnosed *in vitro*, *ex vivo*, or *in vivo*.

5 In an embodiment, the pharmaceutical composition is a good manufacturing practices (GMP)-grade pharmaceutical composition. In an embodiment, the pharmaceutical composition has greater than 99% purity, *e.g.*, greater than 99.5%, 99.8%, or 99.9% purity. In an embodiment, greater than 50%, 60%, 70%, 80%, 90%, 95%, 98%, or 99% of the contaminants in the pharmaceutical composition are removed. In an embodiment, the pharmaceutical composition is in large scale, *e.g.*,
10 at least 20g, 30g, 40g, 50g, 100g, 200g, 300g, 400g, 500g, 600g, 700g, 800g, 900g, 1000g, or more.

The disclosure also provides kits that comprise IL-2 agents described herein. The kits can include one or more other elements including: instructions for use; other reagents, *e.g.*, a label, a therapeutic agent, or an agent useful for chelating, or otherwise coupling, an antibody molecule coupled to a label or therapeutic agent, or a radioprotective composition; devices or other materials
15 for preparing the IL-2 agent for administration; pharmaceutically acceptable carriers; and devices or other materials for administration to a subject.

Nucleic Acids

The present disclosure also provides nucleic acids comprising a nucleotide sequence that
20 encodes an IL-2 agent described herein.

In an embodiment, the nucleic acid comprises a nucleotide sequence encoding an amino acid sequence of an IL-2 variant described herein, or a nucleotide sequence substantially identical thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the nucleic acid
25 comprises a nucleotide sequence encoding an IL-2 variant comprising one or more of the mutations described herein.

In an embodiment, the nucleic acid further comprises a nucleotide sequence encoding an Fc region, *e.g.*, an Fc region described herein, or having a nucleotide sequence substantially identical thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable
30 of hybridizing under the stringency conditions described herein). In an embodiment, the Fc region comprises one or more mutations, *e.g.*, one or more mutations described herein. In an embodiment, the nucleic acid comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein and a nucleotide sequence encoding an Fc region described herein.

In another embodiment, the nucleic acid further comprises a nucleotide sequence encoding a
35 linker, *e.g.*, a linker described herein, or a nucleotide sequence substantially homologous thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the nucleic acid

comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein and a nucleotide sequence encoding a linker described herein. In an embodiment, the nucleic acid comprises from 5' to 3' a nucleotide sequence encoding a linker described herein, and a nucleotide sequence encoding an Fc region described herein.

5 In another embodiment, the nucleic acid comprises a nucleotide sequence encoding an IL-2 fusion protein, *e.g.*, an IL-2 fusion protein described herein, or a nucleotide sequence substantially homologous thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the nucleic acid encoding the IL-2 fusion protein comprises from 5' to 3' a nucleotide sequence
10 encoding an IL-2 variant described herein and a nucleotide sequence encoding an Fc region described herein. In an embodiment, the nucleic acid encoding the IL-2 fusion protein comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein, a nucleotide sequence encoding a linker described herein, and a nucleotide sequence encoding an Fc region described herein.

In an embodiment, the nucleic acid comprises a portion of a nucleotide sequence described
15 herein. The portion may encode, for example, one, two, or all of an IL-2 variant, a linker, or an Fc region.

In an embodiment, the nucleic acid comprises a nucleotide sequence encoding an amino acid sequence described in **Table 9**, or a functional fragment thereof. In an embodiment, the nucleic acid comprises a nucleotide sequence described in **Table 10**.

20 In an embodiment, the nucleic acid comprises a nucleotide sequence encoding the amino acid sequence of any of SEQ ID NOs: 2-38 or 1000-1002, or a functional fragment thereof. In an embodiment, the nucleic acid comprises a nucleotide sequence encoding the amino acid sequence of any of SEQ ID NOs: 56-359 or 1004-1009, or a functional fragment thereof.

In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs:
25 361-398 or 1010-1012, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, 30, 35, 40, 45, or 50 nucleotides thereto. In an embodiment, the nucleic acid further comprises a nucleotide sequence of any of SEQ ID NOs: 399-407 or 1013, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%,
30 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 nucleotides thereto. In an embodiment, the nucleic acid further comprises a nucleotide sequence of any of SEQ ID NOs: 408-415.

In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs:
35 416-481 or 1014-1019, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, or 100 nucleotides thereto. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of

SEQ ID NOs: 416-453 or 1014-1019. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 454-491. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 492-529. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 416-453. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 454-491. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 492-529. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 530-567. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 568-605. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 606-643. In an embodiment, the nucleic acid comprises a nucleotide sequence of any of SEQ ID NOs: 644-681.

In an embodiment, the nucleic acid comprises the nucleotide sequence of any of SEQ ID NOs: 364, 365, 371, or 1010-1012, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, 30, 35, 40, 45, or 50 nucleotides thereto. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 364. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 365. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 371. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1010. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1011. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1012.

In an embodiment, the nucleic acid further comprises the nucleotide sequence of SEQ ID NO: 1013, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 nucleotides thereto. In an embodiment, the nucleic acid further comprises the nucleotide sequence of SEQ ID NO: 48.

In an embodiment, the nucleic acid comprises the nucleotide sequence of any of SEQ ID NOs: 1014-1017, or a nucleotide sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, 30, 35, 40, 45, or 50 nucleotides thereto. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1014. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1015. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1016. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1017. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1018. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1019.

In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 364. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 365. In an

embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 371. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1010. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1011. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1012. In an embodiment, the nucleic acid further comprises the nucleotide sequence of SEQ ID NO: 1013. In an embodiment, the nucleic acid further comprises the nucleotide sequence of SEQ ID NO: 48. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1014. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1015. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1016. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1017. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1018. In an embodiment, the nucleic acid comprises the nucleotide sequence of SEQ ID NO: 1019.

The nucleic acids disclosed herein include deoxyribonucleotides or ribonucleotides, or analogs thereof. The polynucleotide may be either single-stranded or double-stranded, and if single-stranded may be the coding strand or non-coding (antisense) strand. A polynucleotide may comprise modified nucleotides, such as methylated nucleotides and nucleotide analogs. The sequence of nucleotides may be interrupted by non-nucleotide components. A polynucleotide may be further modified after polymerization, such as by conjugation with a labeling component. The nucleic acid may be a recombinant polynucleotide, or a polynucleotide of genomic, cDNA, semisynthetic, or synthetic origin which either does not occur in nature or is linked to another polynucleotide in a non-natural arrangement.

In an aspect, the disclosure features host cells and vectors comprising the nucleic acids described herein. The nucleic acids may be present in a single vector or separate vectors present in the same host cell or separate host cell, as described in more detail below.

In an aspect, the disclosure features methods of treating a disorder (*e.g.*, a disorder described herein) comprising administering to a subject in need thereof an effective amount of a nucleic acid described herein.

Vectors

The present disclosure features vectors that comprises a nucleotide sequence encoding an IL-2 agent described herein. In an embodiment, the vector comprises a nucleic acid described herein (*e.g.*, in **Table 10**).

In an embodiment, the vector comprises a nucleotide sequence encoding an amino acid sequence of an IL-2 variant described herein (*e.g.*, in **Table 9**), or a nucleotide sequence substantially identical thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment,

the vector comprises a nucleotide sequence encoding an IL-2 variant comprising one or more of the mutations described herein.

In an embodiment, the vector further comprises a nucleotide sequence encoding an Fc region, *e.g.*, an Fc region described herein, or having a nucleotide sequence substantially identical thereto
5 (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the Fc region comprises one or more mutations, *e.g.*, one or more mutations described herein. In an embodiment, the vector comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein and a nucleotide sequence encoding an Fc region described herein.

10 In another embodiment, the vector further comprises a nucleotide sequence encoding a linker, *e.g.*, a linker described herein, or a nucleotide sequence substantially homologous thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the vector comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein and a nucleotide sequence
15 encoding a linker described herein. In an embodiment, the vector comprises from 5' to 3' a nucleotide sequence encoding a linker described herein, and a nucleotide sequence encoding an Fc region described herein.

In another embodiment, the vector comprises a nucleotide sequence encoding an IL-2 fusion protein, *e.g.*, an IL-2 fusion protein described herein, or a nucleotide sequence substantially
20 homologous thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable of hybridizing under the stringency conditions described herein). In an embodiment, the vector encoding the IL-2 fusion protein comprises from 5' to 3' a nucleotide sequence encoding an IL-2 variant described herein and a nucleotide sequence encoding an Fc region described herein. In an embodiment, the vector encoding the IL-2 fusion protein comprises from 5' to 3' a nucleotide
25 sequence encoding an IL-2 variant described herein, a nucleotide sequence encoding a linker described herein, and a nucleotide sequence encoding an Fc region described herein.

In an embodiment, the vector further comprises a nucleotide sequence encoding a heavy chain variable region of an anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein. In an embodiment, the vector further comprises a nucleotide sequence encoding a light chain
30 variable region of an anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein. In yet another embodiment, the vector further comprises a nucleotide sequence encoding a heavy chain variable region and a light chain variable region of an anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein.

In an embodiment, the vector further comprises a nucleotide sequence encoding at least one,
35 two, or three CDRs from a heavy chain variable region of an anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein. In another embodiment, the vector further comprises a nucleotide sequence encoding at least one, two, or three CDRs from a light chain variable region of an

anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein. In yet another embodiment, the vector comprises a nucleotide sequence encoding at least one, two, three, four, five, or six CDRs from heavy and light chain variable regions of an anti-IL-2 antibody molecule, *e.g.*, an anti-IL-2 antibody molecule described herein.

5 In an embodiment, the vector comprises a portion of a nucleotide sequence described herein. The portion may encode, for example, an IL-2 variant; a linker an Fc region; a variable region (*e.g.*, VH or VL); one, two, or three or more (*e.g.*, four, five, or six) CDRs; or one, two, three, or four or more framework regions.

The vectors include, but are not limited to, a virus, plasmid, cosmid, lambda phage or a yeast
10 artificial chromosome (YAC).

Numerous vector systems can be employed. For example, one class of vectors utilizes DNA elements which are derived from animal viruses such as, for example, bovine papilloma virus, polyoma virus, adenovirus, vaccinia virus, baculovirus, retroviruses (Rous Sarcoma Virus, MMTV or MOMLV) or SV40 virus. Another class of vectors utilizes RNA elements derived from RNA viruses
15 such as Semliki Forest virus, Eastern Equine Encephalitis virus and Flaviviruses.

Additionally, cells which have stably integrated the DNA into their chromosomes may be selected by introducing one or more markers which allow for the selection of transfected host cells. The marker may provide, for example, prototrophy to an auxotrophic host, biocide resistance (*e.g.*, antibiotics), or resistance to heavy metals such as copper, or the like. The selectable marker gene can
20 be either directly linked to the DNA sequences to be expressed or introduced into the same cell by cotransformation. Additional elements may also be needed for optimal synthesis of mRNA. These elements may include splice signals, as well as transcriptional promoters, enhancers, and termination signals.

Once the expression vector or DNA sequence containing the constructs has been prepared for
25 expression, the expression vectors may be transfected or introduced into an appropriate host cell. Various techniques may be employed to achieve this, such as, for example, protoplast fusion, calcium phosphate precipitation, electroporation, retroviral transduction, viral transfection, gene gun, lipid based transfection or other conventional techniques. In the case of protoplast fusion, the cells are grown in media and screened for the appropriate activity.

30 Methods and conditions for culturing the resulting transfected cells and for recovering the polypeptides (*e.g.*, IL-2 variants or IL-2 fusion proteins) produced are known to those skilled in the art and may be varied or optimized depending upon the specific expression vector and mammalian host cell employed, based upon the present description.

35 Cells

The present disclosure also provides cells comprising a nucleic acid or vector encoding an IL-2 agent described herein.

In an embodiment, the cell is a host cell. For example, the host cell can comprise an IL-2 agent engineered in accordance with a method described herein. In an embodiment, the cell is an isolated cell. In an embodiment, the cell is a cultured cell.

In an embodiment, the cell comprises a nucleic acid comprising a nucleotide sequence
5 encoding an IL-2 agent described herein (*e.g.*, in **Table 10**), a nucleotide sequence substantially
homologous thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto,
and/or capable of hybridizing under the stringency conditions described herein), or a portion of the
aforesaid nucleic acid. In an embodiment, the cell comprises a vector comprising a nucleotide
10 sequence encoding an IL-2 agent described herein, a nucleotide sequence substantially homologous
thereto (*e.g.*, a sequence at least about 85%, 90%, 95%, 99% or more identical thereto, and/or capable
of hybridizing under the stringency conditions described herein), or a portion of the aforesaid vector.

In an embodiment, the cell is genetically engineered to comprise a nucleic acid or vector
encoding an IL-2 agent described herein. In an embodiment, the host cells are genetically engineered
by using an expression cassette. The phrase “expression cassette,” refers to nucleotide sequences,
15 which are capable of affecting expression of a gene in hosts compatible with such sequences. Such
cassettes may include a promoter, an open reading frame with or without introns, and a termination
signal. Additional factors necessary or helpful in effecting expression may also be used, for example,
an inducible promoter.

The cell can be, but is not limited to, a eukaryotic cell, a bacterial cell, an insect cell, or a
20 human cell. Suitable eukaryotic cells include, but are not limited to, Vero cells, HeLa cells, COS cells,
CHO cells, HEK293 cells, BHK cells and MDCKII cells. Suitable insect cells include, but are not
limited to, Sf9 cells.

Uses of IL-2 agents

25 The IL-2 agents (*e.g.*, IL-2 variants, fusion polypeptides, complexes, or immunoconjugates)
described herein, as well as the compositions described herein and the nucleic acids described herein,
have *in vitro*, *ex vivo*, and *in vivo* therapeutic, prophylactic, and/or diagnostic utilities.

In an embodiment, the IL-2 agent modulates (*e.g.*, reduces (*e.g.*, inhibits, blocks, or
neutralizes) or increases (*e.g.*, activates, initiates, or enhances)) one or more biological activities
30 associated with IL-2. For example, these IL-2 agents can be administered to cells in culture, *in vitro*
or *ex vivo*, or to a subject, *e.g.*, a human subject, *e.g.*, *in vivo*, to modulate one or more biological
activities associated with IL-2. Accordingly, in an aspect, the disclosure provides a method of
treating, preventing, or diagnosing a disorder, *e.g.*, a disorder described herein, in a subject,
comprising administering to the subject an IL-2 agent described herein, such that the disorder is
35 treated, prevented, or diagnosed. For example, the disclosure provides a method comprising
contacting the IL-2 agent described herein with cells in culture, *e.g.* *in vitro* or *ex vivo*, or

administering the IL-2 agent described herein to a subject, *e.g.*, *in vivo*, to treat, prevent, or diagnose a disorder, *e.g.*, a disorder associated with IL-2 (*e.g.*, a disorder described herein).

As used herein, the term “subject” is intended to include human and non-human animals. In an embodiment, the subject is a human subject, *e.g.*, a human patient having a disorder described
5 herein, or at risk of having a disorder described herein. The term “non-human animals” includes mammals and non-mammals, such as non-human primates. In an embodiment, the subject is a human. The methods and compositions described herein are suitable for treating human patients for a disorder described herein. Patients having a disorder described herein include those who have developed a disorder described herein but are (at least temporarily) asymptomatic, patients who have
10 exhibited a symptom of a disorder described herein, or patients having a disorder related to or associated with a disorder described herein.

Without wishing to be bound by theory, it is believed that in an embodiment, the IL-2 agents described herein selectively stimulate regulatory T cells (Tregs). For example, the IL-2 agents described herein can promote the proliferation, survival, activation, and/or function of CD3+FoxP3+
15 T cells over CD3+FoxP3- T cells. Methods of measuring the ability to selectively stimulate Tregs can be measured by flow cytometry of peripheral blood leukocytes, in which there is an observed increase in the percentage of FOXP3+CD4+ T cells among total CD4+ T cells, an increase in percentage of FOXP3+CD8+ T cells among total CD8+ T cells, an increase in percentage of FOXP3+ T cells relative to NK cells, and/or a greater increase in the expression level of CD25 on the surface of
20 FOXP3+ T cells relative to the increase of CD25 expression on other T cells. Preferential growth of Treg cells can also be detected as increased representation of demethylated FOXP3 promoter DNA (i.e. the Treg-specific demethylated region, or TSDR) relative to demethylated CD3 genes in DNA extracted from whole blood, as detected by sequencing of polymerase chain reaction (PCR) products from bisulfite-treated genomic DNA (J. Shouli, et al. 2011. Epigenetics 6:2, 236-246). Without
25 wishing to be bound by theory, it is believed that in an embodiment, the IL-2 agents described herein can achieve immune modulation through selective activation of regulatory T cells, resulting in Treg stimulation with minimal effect on T effector and NK cells. The IL-2 agents described herein are particularly suitable for treating autoimmune and inflammatory diseases, *e.g.*, primarily mediated by Effector T cell activation (*e.g.*, lupus nephritis, autoimmune hepatitis, nephrotic syndrome). In an
30 embodiment, the IL-2 agent results in immune modulation without immunosuppression, which is highly desired in an IL-2 therapy.

In an aspect, the disclosure provides a method of increasing the ratio of regulatory T cells (Tregs) to non-regulatory T cells (non-Tregs) within a population of T cells, comprising contacting the population of T cells with an effective amount of an IL-2 agent described herein.

35 In an embodiment, the IL-2 agent selectively increases the ratio of Tregs over non-Tregs by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more. In an embodiment, the IL-2 agent selectively increases the ratio of CD3+FoxP3+ cells

to CD3+FoxP3⁻ cells by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more.

In an aspect, the disclosure provides a method of increasing the ratio of regulatory T cells (Tregs) to non-regulatory T cells (non-Tregs) in a subject (*e.g.*, in the peripheral blood of a subject), comprising contacting the subject or sample with an effective amount of an IL-2 agent described herein.

In an embodiment, the IL-2 agent selectively increases the ratio of Tregs over non-Tregs in the subject, or in a sample (*e.g.*, a peripheral blood sample) from the subject, by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more. In an embodiment, the IL-2 agent selectively increases the ratio of CD3+FoxP3⁺ cells to CD3+FoxP3⁻ cells in the subject, or in a sample (*e.g.*, a peripheral blood sample) from the subject, by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more.

In an aspect, the disclosure provides a method of increasing the ratio of regulatory T cells (Tregs) to natural killer cells (NKs) in a subject (*e.g.*, in the peripheral blood of a subject), comprising contacting the subject or sample with an effective amount of an IL-2 agent described herein.

In an embodiment, the IL-2 agent selectively increases the ratio of Tregs over NKs in the subject, or in a sample (*e.g.*, a peripheral blood sample) from the subject, by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more. In an embodiment, the IL-2 agent selectively increases the ratio of CD3+FoxP3⁺ cells to CD3-CD19⁻ lymphocytes expressing CD56 and/or CD16 in the subject, or in a sample (*e.g.*, a peripheral blood sample) from the subject, by about 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, or more, or about 2, 3, 4, 5, 6, 7, 8, 9, 10-fold or more.

Methods of Treating or Preventing Disorders

The IL-2 agents (*e.g.*, IL-2 variants, fusion polypeptides, complexes, or immunoconjugates) described herein, as well as the pharmaceutical compositions disclosed herein and the nucleic acids described herein, can be used to treat or prevent various disorders or conditions.

In an embodiment, the disorder is an immune disorder, *e.g.*, an autoimmune disease. In an embodiment, the disorder is a cancer. In an embodiment, the disorder is an infectious disease.

The IL-2 agents described herein can have an optimal or improved half-life, which can be desirable for treating or preventing a wide range of disorders or conditions. While not wishing to be bound by theory, it is believed that in an embodiment, the IL-2 agents described herein can provide one or more benefits over another IL-2 agent having the same or similar binding affinity and/or specificity (*e.g.*, an IL-2 agent that does not have, or has not been engineered to have, an optimal or improved half-life). These benefits can include, but are not limited to, an increased therapeutic or preventive efficacy, a reduced dosage regimen, or an improved pharmacokinetic property. In an embodiment, the IL-2 includes a mutated Fc region as described herein.

In an embodiment, the ratio of regulatory T cells (Tregs) to non-regulatory T cells within the subject (*e.g.*, in the peripheral blood of the subject) increases after the administration. In an embodiment, the ratio of regulatory T cells (Tregs) to non-regulatory T cells within the subject (*e.g.*, in the peripheral blood of the subject) remains essentially the same after the administration. In an
 5 embodiment, the method further comprises identifying a subject who needs an increased level of Tregs. In an embodiment, the method further comprises determining the level of Tregs in the subject prior to and/or after the administration.

Exemplary immune disorders or conditions that can be treated or prevented by the IL-2 agents described herein include, but are not limited to, Addison's disease, agammaglobulinemia, alopecia
 10 areata, amyloidosis, ankylosing spondylitis, anti-GBM/anti-TBM nephritis, antiphospholipid syndrome (APS), autoimmune hepatitis, autoimmune inner ear disease (AIED), axonal & neuronal neuropathy (AMAN), Behcet's disease, Bullous pemphigoid, Castleman disease (CD), Celiac disease, Chagas disease, chronic inflammatory demyelinating polyneuropathy (CIDP), chronic recurrent multifocal osteomyelitis (CRMO), Churg-Strauss, Cicatricial pemphigoid/benign mucosal
 15 pemphigoid, Cogan's syndrome, Cold agglutinin disease, Congenital heart block, Coxsackie myocarditis, CREST syndrome, Crohn's disease, dermatitis herpetiformis, dermatomyositis, Devic's disease (neuromyelitis optica), Discoid lupus, Dressler's syndrome, endometriosis, eosinophilic esophagitis (EoE), eosinophilic fasciitis, erythema nodosum, essential mixed cryoglobulinemia, Evans syndrome, fibromyalgia, fibrosing alveolitis, giant cell arteritis (temporal arteritis), giant cell
 20 myocarditis, Glomerulonephritis, Goodpasture's syndrome, Granulomatosis with Polyangiitis, Graft-versus-host disease (GvHD), Graves' disease, Guillain-Barre syndrome, Hashimoto's thyroiditis, hemolytic anemia, Henoch-Schonlein purpura (HSP), herpes gestationis or pemphigoid gestationis (PG), hypogammaglobulinemia, IgA nephropathy, IgG4-related sclerosing disease, inclusion body myositis (IBM), interstitial cystitis (IC), juvenile arthritis, juvenile diabetes (Type 1 diabetes),
 25 juvenile myositis (JM), Kawasaki disease, Lambert-Eaton syndrome, leukocytoclastic vasculitis, Lichen planus, Lichen sclerosus, Ligneous conjunctivitis, linear IgA disease (LAD), lupus (*e.g.*, systemic lupus erythematosus (SLE) or lupus nephritis), Lyme disease chronic, Membranous neuropathy, Meniere's disease, microscopic polyangiitis (MPA), mixed connective tissue disease (MCTD), Mooren's ulcer, Mucha-Habermann disease, multiple sclerosis (MS), Myasthenia gravis,
 30 Myositis, Narcolepsy, nephrotic syndrome, Neuromyelitis optica, neutropenia, ocular cicatricial pemphigoid, optic neuritis, palindromic rheumatism (PR), PANDAS (Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcus), paraneoplastic cerebellar degeneration (PCD), Paroxysmal nocturnal hemoglobinuria (PNH), Parry Romberg syndrome, Pars planitis (peripheral uveitis), Parsonage-Turner syndrome, Pemphigus, peripheral neuropathy, Perivenous
 35 encephalomyelitis, pernicious anemia (PA), POEMS syndrome (polyneuropathy, organomegaly, endocrinopathy, monoclonal gammopathy, skin changes), polyarteritis nodosa, polymyalgia rheumatica, polymyositis, postmyocardial infarction syndrome, postpericardiotomy syndrome,

primary biliary cirrhosis, primary sclerosing cholangitis, progesterone dermatitis, psoriasis, psoriatic arthritis, pure red cell aplasia (PRCA), pyoderma gangrenosum, Raynaud's phenomenon, Reactive Arthritis, Reflex sympathetic dystrophy, Reiter's syndrome, relapsing polychondritis, restless legs syndrome (RLS), retroperitoneal fibrosis, rheumatic fever, rheumatoid arthritis (RA), sarcoidosis, Schmidt syndrome, scleritis, scleroderma, Sjogren's syndrome, sperm & testicular autoimmunity, Stiff person syndrome (SPS), subacute bacterial endocarditis (SBE), Susac's syndrome, sympathetic ophthalmia (SO), Takayasu's arteritis, temporal arteritis/Giant cell arteritis, thrombocytopenic purpura (TTP), Tolosa-Hunt syndrome (THS), transverse myelitis, type 1 diabetes, ulcerative colitis (UC), undifferentiated connective tissue disease (UCTD), uveitis, vasculitis, vitiligo, or Wegener's granulomatosis (Granulomatosis with Polyangiitis (GPA)).

In an embodiment, the disorder that can be treated or prevented by the IL-2 agents described herein is lupus nephritis. In an embodiment, the disorder that can be treated or prevented by the IL-2 agents described herein is autoimmune hepatitis. In an embodiment, the disorder that can be treated or prevented by the IL-2 agents described herein is nephrotic syndrome.

Exemplary disorders or conditions that can be treated or prevented by the IL-2 agents described herein include, but are not limited to, a cancer (*e.g.*, a solid tumor or a hematologic cancer), an infectious disease (*e.g.*, a bacterial infection or a viral infection), an immune disorder (*e.g.*, an autoimmune disorder), or an organ transplant rejection (*e.g.*, graft-versus-host disease (GvHD)). In an embodiment, the disorder is a chronic disorder.

Exemplary cancers that can be treated or prevented by the IL-2 agents described herein include, but are not limited to, acute lymphoblastic leukemia (ALL), acute myeloid leukemia (AML), adrenocortical carcinoma, Kaposi sarcoma, an AIDS-related lymphoma, primary central nervous system (CNS) lymphoma, anal cancer, appendix cancer, astrocytoma, atypical teratoid/rhabdoid tumor, basal cell carcinoma, bile duct cancer, bladder cancer, bone cancer (*e.g.*, Ewing sarcoma or osteosarcoma and malignant fibrous histiocytoma), brain tumor (*e.g.*, astrocytomas, brain stem glioma, central nervous system atypical teratoid/rhabdoid tumor, central nervous system embryonal tumor, central nervous system germ cell tumor, craniopharyngioma, or ependymoma), breast cancer, bronchial tumor, Burkitt lymphoma, carcinoid tumor (*e.g.*, gastrointestinal carcinoid tumor), cardiac (heart) tumor, embryonal tumor, germ cell tumor, lymphoma, cervical cancer, cholangiocarcinoma, chordoma, chronic lymphocytic leukemia (CLL), chronic myelogenous leukemia (CML), chronic myeloproliferative neoplasm, colon cancer, colorectal cancer, craniopharyngioma, cutaneous T-cell lymphoma, ductal carcinoma *in situ* (DCIS), endometrial cancer, ependymoma, esophageal cancer, esthesioneuroblastoma, Ewing sarcoma, extracranial germ cell tumor, extragonadal germ cell tumor, eye cancer (*e.g.*, intraocular melanoma or retinoblastoma), fallopian tube cancer, fibrous histiocytoma of bone, osteosarcoma, gallbladder cancer, gastric (stomach) cancer, gastrointestinal carcinoid tumor, gastrointestinal stromal tumors (GIST), germ cell tumor (*e.g.*, central nervous system tumor, extracranial tumor, extragonadal tumor, ovarian cancer, or testicular cancer), gestational trophoblastic

disease, glioma, hairy cell leukemia, head and neck cancer, hepatocellular (liver) cancer, Hodgkin lymphoma, hypopharyngeal cancer, intraocular melanoma, islet cell tumor, pancreatic neuroendocrine tumor, Kaposi sarcoma, kidney cancer (*e.g.*, renal cell cancer or Wilms tumor), Langerhans cell histiocytosis (LCH), laryngeal cancer, leukemia (*e.g.*, acute lymphoblastic leukemia (ALL), acute myeloid leukemia (AML), chronic lymphocytic leukemia (CLL), chronic myelogenous leukemia (CML), or hairy cell leukemia), lip and oral cavity cancer, liver cancer, lung cancer (*e.g.*, non-small cell lung cancer (NSCLC) or small cell lung cancer), lymphoma (*e.g.*, aids-related, Burkitt lymphoma, cutaneous T-cell lymphoma, Hodgkin lymphoma, non-Hodgkin lymphoma, or primary central nervous system (CNS) lymphoma), Waldenström macroglobulinemia, male breast cancer, malignant fibrous histiocytoma of bone and osteosarcoma, melanoma (*e.g.*, intraocular (eye) melanoma), Merkel cell carcinoma, mesothelioma, metastatic squamous neck cancer, midline tract carcinoma, mouth cancer, multiple endocrine neoplasia syndrome, multiple myeloma/plasma cell neoplasm, mycosis fungoides, myelodysplastic syndrome, myelodysplastic/myeloproliferative neoplasm, chronic myeloproliferative neoplasm, nasal cavity and paranasal sinus cancer, nasopharyngeal cancer, neuroblastoma, oral cancer, lip and oral cavity cancer, oropharyngeal cancer, osteosarcoma and malignant fibrous histiocytoma of bone, ovarian cancer (*e.g.*, epithelial ovarian cancer or germ cell ovarian tumor), pancreatic cancer, pancreatic neuroendocrine tumors (islet cell tumors), papillomatosis, paraganglioma, paranasal sinus and nasal cavity cancer, parathyroid cancer, penile cancer, pharyngeal cancer, pheochromocytoma, pituitary tumor, pleuropulmonary blastoma, peritoneal cancer, prostate cancer, rectal cancer, retinoblastoma, rhabdomyosarcoma, salivary gland cancer, sarcoma (*e.g.*, Ewing sarcoma, Kaposi sarcoma, osteosarcoma, rhabdomyosarcoma, soft tissue sarcoma, or uterine sarcoma), Sézary syndrome, skin cancer (*e.g.*, melanoma, Merkel cell carcinoma, or nonmelanoma skin cancer), small intestine cancer, squamous cell carcinoma, testicular cancer, throat cancer, thymoma and thymic carcinoma, thyroid cancer, transitional cell cancer of the renal pelvis and ureter, urethral cancer, endometrial uterine cancer, vaginal cancer, vulvar cancer, or a metastatic lesion thereof.

Exemplary infectious diseases that can be treated or prevented by the IL-2 agents described herein include, but are not limited to, Acinetobacter infections, actinomycosis, African sleeping sickness (African trypanosomiasis), AIDS (acquired immunodeficiency syndrome), amebiasis, anaplasmosis, angiostrongyliasis, anisakiasis, anthrax, arcanobacterium haemolyticum infection, argentine hemorrhagic fever, ascariasis, aspergillosis, astrovirus infection, babesiosis, bacillus cereus infection, bacterial pneumonia, bacterial vaginosis, bacteroides infection, balantidiasis, bartonellosis, baylisascaris infection, bk virus infection, black piedra, blastocystosis, blastomycosis, bolivian hemorrhagic fever, botulism (and infant botulism), brazilian hemorrhagic fever, brucellosis, bubonic plague, burkholderia infection, buruli ulcer, calicivirus infection (norovirus and sapovirus), campylobacteriosis, candidiasis (moniliasis; thrush), capillariasis, carrion's disease, cat-scratch disease, cellulitis, chagas disease (american trypanosomiasis), chancroid, chickenpox, chikungunya,

chlamydia, chlamydomyces pneumoniae infection (taiwan acute respiratory agent or twar), cholera, chromoblastomycosis, chytridiomycosis, clonorchiasis, clostridium difficile colitis, coccidioidomycosis, colorado tick fever (CTF), common cold (Acute viral rhinopharyngitis; Acute coryza), Creutzfeldt-Jakob disease (CJD), Crimean-Congo hemorrhagic fever (CCHF),

5 cryptococcosis, cryptosporidiosis, cutaneous larva migrans (CLM), cyclosporiasis, cysticercosis, cytomegalovirus infection, dengue fever, desmodermis infection, dientamoebiasis, diphtheria, diphyllorhynchiasis, dracunculiasis, ebola hemorrhagic fever, echinococcosis, ehrlichiosis, enterobiasis (pinworm infection), enterococcus infection, enterovirus infection, epidemic typhus, erythema infectiosum (fifth disease), exanthem subitum (sixth disease), fascioliasis, fasciolopsiasis,

10 fatal familial insomnia (FFI), filariasis, food poisoning by clostridium perfringens, free-living amebic infection, fusobacterium infection, gas gangrene (clostridial myonecrosis), geotrichosis, gerstmann-sträussler-scheinker syndrome (GSS), giardiasis, glanders, gnathostomiasis, gonorrhoea, granuloma inguinale (donovanosis), Group A streptococcal infection, Group B streptococcal infection, haemophilus influenzae infection, hand, foot and mouth disease (HFMD), Hantavirus Pulmonary

15 Syndrome (HPS), heartland virus disease, helicobacter pylori infection, hemolytic-uremic syndrome (HUS), hemorrhagic fever with renal syndrome (HFRS), hepatitis A, hepatitis B, hepatitis C, hepatitis D, hepatitis E, herpes simplex, histoplasmosis, hookworm infection, human bocavirus infection, human ewingii ehrlichiosis, human granulocytic anaplasmosis (HGA), human metapneumovirus infection, Human monocytic ehrlichiosis, human papillomavirus (HPV) infection,

20 Human parainfluenza virus infection, Hymenolepiasis, Epstein-Barr Virus Infectious Mononucleosis (Mono), influenza (flu), isosporiasis, kawasaki disease, keratitis, kingella kingae infection, kuru, lassa fever, legionellosis (legionnaires' disease), legionellosis (pontiac fever), leishmaniasis, leprosy, leptospirosis, listeriosis, lyme disease (lyme borreliosis), lymphatic filariasis (Elephantiasis), Lymphocytic choriomeningitis, Malaria, Marburg hemorrhagic

25 fever (MHF), Measles, Middle East respiratory syndrome (MERS), melioidosis (Whitmore's disease), meningitis, meningococcal disease, metagonimiasis, microsporidiosis, molluscum contagiosum (MC), Monkeypox, Mumps, Murine typhus (Endemic typhus), Mycoplasma pneumonia, Mycetoma (disambiguation), Myiasis, Neonatal conjunctivitis (Ophthalmia neonatorum), (New) Variant Creutzfeldt-Jakob disease (vCJD, nvCJD), nocardiosis, onchocerciasis (River blindness),

30 opisthorchiasis, paracoccidioidomycosis (South American blastomycosis), paragonimiasis, pasteurellosis, pediculosis capitis (head lice), pediculosis corporis (body lice), pediculosis pubis (pubic lice, crab lice), pelvic inflammatory disease (PID), pertussis (Whooping cough), plague, pneumococcal infection, pneumocystis pneumonia (PCP), pneumonia, poliomyelitis, prevotella infection, primary amoebic meningoencephalitis (PAM), progressive multifocal

35 leukoencephalopathy, psittacosis, Q fever, rabies, relapsing fever, respiratory syncytial virus infection, rhinosporidiosis, rhinovirus infection, rickettsial infection, rickettsialpox, Rift Valley fever (RVF), Rocky Mountain spotted fever (RMSF), rotavirus infection, rubella, salmonellosis,

SARS (Severe Acute Respiratory Syndrome), scabies, schistosomiasis, sepsis, shigellosis (Bacillary dysentery), shingles (Herpes zoster), smallpox (Variola), sporotrichosis, staphylococcal food poisoning, staphylococcal infection, strongyloidiasis, subacute sclerosing panencephalitis, syphilis, Taeniasis, Tetanus (Lockjaw), Tinea barbae (Barber's itch), Tinea capitis (Ringworm of the Scalp),
 5 Tinea corporis (Ringworm of the Body), Tinea cruris (Jock itch), Tinea manum (Ringworm of the Hand), Tinea nigra, Tinea pedis (Athlete's foot), Tinea unguium (Onychomycosis), Tinea versicolor (Pityriasis versicolor), Toxocariasis (Ocular Larva Migrans (OLM)), Toxocariasis (Visceral Larva Migrans (VLM)), Trachoma, Toxoplasmosis, Trichinosis, Trichomoniasis, Trichuriasis (Whipworm infection), Tuberculosis, Tularemia, Typhoid fever, Typhus fever,
 10 Ureaplasma urealyticum infection, Valley fever, Venezuelan equine encephalitis, Venezuelan hemorrhagic fever, Vibrio vulnificus infection, Vibrio parahaemolyticus enteritis, viral pneumonia, West Nile Fever, white piedra (Tinea blanca), Yersinia pseudotuberculosis infection, yersiniosis, yellow fever, Zika fever, or zygomycosis.

The IL-2 agents described herein are typically administered at a frequency that keeps a therapeutically effective level of IL-2 agents in the patient's system until the patient recovers. For
 15 example, the IL-2 agents may be administered at a frequency that achieves a serum concentration sufficient for at least about 1, 2, 5, 10, 20, 30, or 40 agents to bind each target molecule or cell. In an embodiment, the IL-2 agent is administered every 1, 2, 3, 4, 5, 6, or 7 days, every 1, 2, 3, 4, 5, or 6 weeks, or every 1, 2, 3, 4, 5, or 6 months. In an embodiment, the IL-2 agent is administered once a
 20 month. In an embodiment, the IL-2 agent is administered once a week.

Methods of administering various agents (*e.g.*, antibody molecules or fusion proteins) are known in the art and are described below. Suitable dosages of the agents used will depend on the age and weight of the subject and the particular drug used.

In an embodiment, the ratio of regulatory T cells (Tregs) to non-regulatory T cells within the
 25 subject (*e.g.*, in the peripheral blood of the subject) increases after the administration. In an embodiment, the ratio of regulatory T cells (Tregs) to non-regulatory T cells within the subject (*e.g.*, in the peripheral blood of the subject) remains essentially the same after the administration.

The IL-2 agents can be used by themselves or conjugated to a second agent, *e.g.*, a protein, *e.g.*, an antibody molecule, a polymer (*e.g.*, polyethylene glycol (PEG)), or a cytokine. In an
 30 embodiment, the second agent comprises a second IL-2 agent. This method includes: administering the IL-2 agent, alone or conjugated to a second agent, to a subject requiring such treatment.

Lupus Nephritis

The IL-2 agents (*e.g.*, *e.g.*, IL-2 variants, IL-2 fusion proteins (*e.g.*, IL-2-Fc fusion proteins),
 35 IL-2 complexes, or IL-2 conjugates) described herein, as well as the pharmaceutical compositions disclosed herein, can be used to treat lupus nephritis. Lupus nephritis is an autoimmune disorder that is a form of glomerulonephritis that can constitute the most severe organ manifestation of systemic

lupus erythematosus (SLE). Lupus nephritis leads to autoantibodies in the kidney, *e.g.*, antibodies to nucleic acid containing particles (anti-nuclear antibodies (ANA)), which causes inflammation, *e.g.*, inflammation in the nephrons, and impairs kidney function, *e.g.*, waste removal and filtration. It can result in permanent scarring and damage to the kidneys and possibly end-stage renal disease (ESRD).

5 Lupus nephritis often develops in a subject within five years of developing lupus. In an embodiment, lupus, *e.g.*, SLE and/or lupus nephritis, can result from a combination of factors, *e.g.*, genetic, environmental, immunoregulatory, hormonal, and/or epigenetic factors.

Imbalance of T cells due to IL-2 deprivation can amplify murine lupus and IL-2 can restore Treg:Tcon balance and impede disease progression. Adoptive transfer of *ex vivo* expanded regulatory
10 T cells can suppress disease in lupus-prone mice. Lower number of Tregs are typically associated with patients with active SLE and Tregs can decline during flare and increase during remission.

There is unmet need for better treatment in lupus nephritis. For example, conventional immunosuppressive treatments are not uniformly effective. Even in patients who respond, 35% may relapse. 5–20% of patients with lupus nephritis develop End-stage kidney disease (ESKD) within 10
15 years from the initial event. Drug-induced toxicity remains a concern, one of the commonest cause of mortality and morbidity is infections

Exemplary symptoms of lupus nephritis include, but are not limited to, blood in the urine (hematuria), proteinuria, foamy urine (*e.g.*, foamy urine due to excess protein in the urine), increased urination, edema, Reynaud syndrome, joint pain, pericarditis and effusion, arthritis, pleural effusion,
20 high blood pressure, swelling in hands, ankles, and feet, excess levels of creatine in the blood, muscle pain, weight gain, fever of unknown etiology, neurological complications, and a red rash that is typically localized to the face (*e.g.*, across the nose and face).

Diagnosis of lupus nephritis can be based on urinalysis and the measurement of blood, cell casts (*e.g.*, cell fragments often found in the blood and/or the tubules of the kidneys), and protein
25 levels in the urine. Diagnosis can also be based on a blood test to estimate kidney function, *e.g.*, a creatine blood test with or without a blood urea nitrogen (BUN) test. Additionally, to test kidney function, the person's estimated glomerular filtration rate (eGFR) can be measured from a blood sample. A kidney biopsy can also be performed, which can be used to stage lupus nephritis. In an embodiment, lupus nephritis is classified as one of six stages under the International Society of
30 Nephrology/Renal Pathology Society (ISN/RPS) classification system, which include, minimal mesangial lupus nephritis (Class I), mesangial proliferative lupus nephritis (Class II), focal lupus nephritis (<50% of all glomeruli) (Class III), diffuse segmental or global lupus nephritis (≥50% of all glomeruli) (Class IV), membranous lupus nephritis (Class V), or advanced sclerosing lupus nephritis (>90% of all glomeruli) (Class VI).

35 In an embodiment, an IL-2 agent described herein is used in combination with a different therapeutic agent or modality for treating lupus nephritis in a subject.

Autoimmune hepatitis

The IL-2 agents (*e.g.*, *e.g.*, IL-2 variants, IL-2 fusion proteins (*e.g.*, IL-2-Fc fusion proteins), IL-2 complexes, or IL-2 conjugates) described herein, as well as the pharmaceutical compositions disclosed herein, can be used to treat autoimmune hepatitis. Autoimmune hepatitis is an autoimmune disorder that affects the liver, resulting in progressive and chronic inflammation as well as liver damage. It can result in permanent scarring and cirrhosis of the liver and/or liver failure. In an embodiment, autoimmune hepatitis can be characterized by a T cell-mediated immune response against liver autoantigens that results from a loss of regulatory immune control and tolerance. In an embodiment, autoimmune hepatitis can result from a combination of factors, *e.g.*, genetic, environmental, dietary, and immunoregulatory factors. In an embodiment, autoimmune hepatitis can result from an unknown etiology.

Hepatic inflammation typically depends on the balance between T effector cells and Tregs. Biopsy is required for diagnosis and modulation of treatment and interface hepatitis is often the hallmark finding in biopsy. AIH patients can have lower IL-2 levels and Tregs respond well to IL-2 supplement. Without wishing to be bound by theory, it is believed that in an embodiment, T cells (both Tregs and T effector cells) play a role in the development and persistence of AIH. For example, impaired Treg function and the ratio of Tregs to T effector cells in inflamed liver tissue may serve as potential drivers of disease.

There is unmet need for better treatment in autoimmune hepatitis. Steroid based therapies are considered to be the standard of care. Relapse after treatment cessation is almost universal (*e.g.*, between 25% and 100%). Chronic azathioprine use can be associated with risk of cancer.

Exemplary symptoms of autoimmune hepatitis include, but are not limited to, joint pain, lethargy, nausea, poor appetite, pain over the liver in the upper abdomen, jaundice of the eyes and skin, dark colored urine, rash, psoriasis, vitiligo, acne, fatigue, spider angiomas, hepatomegaly, rectal bleeding or vomiting, unexplained weight loss, pruritis, edema of lower legs, ankles, or feet, and bloating from a buildup of fluid in the abdomen. In an embodiment, autoimmune hepatitis results in increased levels of the serum transaminase, IgG levels, autoantibodies, liver interface hepatitis, and/or liver enzymes, alanine transaminase (ALT) and an aspartate transaminase (AST). In an embodiment, autoimmune hepatitis results in decreased levels of IL-2.

Diagnosis of autoimmune hepatitis can be based on a laboratory test and/or liver function test, *e.g.*, a blood test, a liver biopsy, an ultrasound, a Doppler ultrasonography, a CT and/or an MRI and cholangiography (x-rays of the bile ducts). In an embodiment, the blood test include one or more of a coagulation test (*e.g.*, to measure clotting factors), a complete blood count (CBC), an electrolyte panel, a serum bilirubin test, a serum albumin test, a serum alkaline phosphatase test, a serum aminotransferases (transaminases) test, a prothrombin time (PTT) test, an alanine transaminase (ALT) test, an aspartate transaminase (AST) test, gamma-glutamyl transpeptidase test, a lactic dehydrogenase test, a 5-nucleotidase test, an alpha-fetoprotein test, and a mitochondrial antibodies

test. In an embodiment, diagnosis of autoimmune hepatitis includes a measure of autoimmune antibodies, *e.g.*, antinuclear antibodies (ANA) and anti-smooth muscle antibodies (SMA).

In an embodiment, diagnosis of autoimmune hepatitis comprises quantifying a Revised Diagnostic Criteria (RDC) score. In an embodiment, quantification of an RDC score comprises one or more of the following criteria: gender (*e.g.*, being a female); ratio of alkaline phosphatase levels to aspartate aminotransferase or alanine aminotransferase levels; γ -globulin or IgG levels; ANA, SNA and anti-liver kidney microsomal type I (anti-LKM1) antibody titers, anti-mitochondrial antibody positivity, viral serological markers, use of drugs with hepatotoxic potential, alcohol use, *HLADR3* or *HLADR4* genotypes, concurrent immunological diseases (*e.g.*, thyroiditis and/or colitis), and/or histological features (*e.g.*, presence or absence of interface hepatitis, plasma cells, rosettes, and/or biliary changes). In an embodiment, an aggregate RDC score of >15 points is classified as autoimmune hepatitis. In an embodiment, an aggregate RDC score of 10-15 is classified as probable autoimmune hepatitis.

In an embodiment, diagnosis of autoimmune hepatitis comprises quantifying a Simplified Diagnostic Criteria (SDC) score. In an embodiment, an SDC aggregate score of ≥ 7 is classified as autoimmune hepatitis. In an embodiment, an SDC aggregate score of ≥ 6 is classified as probable autoimmune hepatitis. In an embodiment, quantification of an SDC score comprises one or more of the following criteria: presence of autoantibodies (*e.g.*, ANA, SNA and/or anti-LKM1 antibodies), immunoglobulin levels (*e.g.*, levels of γ -globulin or IgG), viral hepatitis, and/or histological features compatible with autoimmune hepatitis.

In an embodiment, autoimmune hepatitis can be classified as Type I autoimmune hepatitis. Type I autoimmune hepatitis can occur at any age. In an embodiment, Type I autoimmune hepatitis can often be associated with other autoimmune disorders, *e.g.*, thyroiditis, inflammatory bowel disease, type I diabetes, Addison's disease. In an embodiment, autoimmune hepatitis can be classified as Type II autoimmune hepatitis. Type II autoimmune hepatitis can be more common in children and younger adults. In an embodiment, Type II autoimmune hepatitis may be associated with other autoimmune disorders, thyroiditis, inflammatory bowel disease, type I diabetes, Addison's disease.

In an embodiment, an IL-2 agent described herein is used in combination with a different therapeutic agent or modality for treating autoimmune hepatitis in a subject.

Nephrotic Syndrome

The IL-2 agents (*e.g.*, IL-2 variants, IL-2 fusion proteins (*e.g.*, IL-2-Fc fusion proteins), IL-2 complexes, or IL-2 conjugates) described herein, as well as the pharmaceutical compositions disclosed herein, can be used to treat nephrotic syndrome, *e.g.*, an idiopathic nephrotic syndrome. Nephrotic syndrome is a collection of symptoms that indicate kidney damage, which include but are

not limited to, albuminuria (increased protein in the urine), hyperlipidemia (higher than normal fat and cholesterol levels in the blood), edema (*e.g.*, usually in the legs, feet, ankles and less often in the hands or face), and/or hypoalbuminemia (low levels of albumin in the blood). In an embodiment, nephrotic syndrome results from damage to the glomeruli of the kidneys, which impairs kidney
5 function, *e.g.*, waste removal and filtration. In an embodiment, in nephrotic syndrome, the damaged glomeruli allow at least about 3 grams or more of protein to leak into the urine, as measured over a 24-hour period. In an embodiment, nephrotic syndrome can lead to other health problems, *e.g.*, anemia, heart disease, high blood pressure, fluid buildup, blood clots, infections, malnutrition, stroke, heart attack, acute kidney injury, chronic kidney disease, kidney failure, and/or end-stage renal
10 disease (ESRD).

In an embodiment, nephrotic syndrome results from systemic T-cell dysregulation, *e.g.*, a reduction of CD4+ T helper cells and increased prevalence of CD8+ cytotoxic T cells; imbalance between Th2 and Th1 cells with increased production of IL-13, and/or reduced frequency and/or function of T regulatory cells.

15 In an embodiment, nephrotic syndrome is the result of other diseases that affect the kidneys, *e.g.*, focal segmental glomerulosclerosis (FSGS), minimal change disease (MCD), IgA nephropathy, lupus nephritis, and membranous nephropathy. In an embodiment, nephrotic syndrome is the result of systemic diseases that affect the whole body including but not limited to the kidneys, *e.g.*, diabetes, amyloidosis, and/or lupus (*e.g.*, systemic lupus erythematosus (SLE) and/or lupus nephritis). In an
20 embodiment, idiopathic neuropathy results from MCD or Primary FSGS. In an embodiment, focal segmental glomerulosclerosis (FSGS) is the most common etiology of idiopathic nephrotic syndrome in adults. In an embodiment, minimal change disease (MCD) is the most common etiology of idiopathic nephrotic syndrome in children. In an embodiment, MCD results in decreased levels of T regulatory cells, T regulatory cell-related cytokines (*e.g.*, TGF- β 1 and IL-10), and T regulatory cell-
25 related transcription factors (*e.g.*, FOXP3). In an embodiment, increasing the number of T regulatory cells can induce remission of FSGS.

Exemplary symptoms of nephrotic syndrome include, but are not limited to, edema, foamy urine (*e.g.*, foamy urine due to excess protein in the urine), weigh gain (*e.g.*, weight gain due to excessive fluid retention), fatigue, and loss of appetite.

30 Diagnosis of nephrotic syndrome can be based on urinalysis and the measurement of blood, cell casts (*e.g.*, cell fragments often found in the blood and/or the tubules of the kidneys), albumin and/or creatine levels in the urine, and protein levels in the urine. Diagnosis can also be based on a blood test to estimate kidney function, *e.g.*, a creatine blood test with or without a blood urea nitrogen (BUN) test. Additionally, to test kidney function, the person's estimated glomerular filtration rate
35 (eGFR) can be measured from a blood sample. A kidney biopsy can also be performed.

Nephrotic syndrome can typically be treated by steroids, but relapse is common and often requires use of one or more additional therapies.

In an embodiment, an IL-2 agent described herein is used in combination with a different therapeutic agent or modality for treating nephrotic syndrome in a subject.

Combination Therapies

5 The IL-2 agents (*e.g.*, *e.g.*, IL-2 variants, IL-2 fusion proteins, IL-2 complexes, or IL-2 conjugates) described herein, as well as the pharmaceutical compositions disclosed herein, can be used in combination with other therapies.

 For example, the combination therapy can include an IL-2 agent described herein co-formulated with, and/or co-administered with, one or more additional therapeutic agents, *e.g.*, one or
10 more additional therapeutic agents described herein. In other embodiments, the IL-2 agents are administered in combination with other therapeutic treatment modalities, *e.g.*, other therapeutic treatment modalities described herein. Such combination therapies may advantageously utilize lower dosages of the administered therapeutic agents, thus avoiding possible toxicities or complications associated with the various monotherapies.

15 Administered “in combination,” as used herein, means that two (or more) different treatments are delivered to the subject before, or during the course of the subject's affliction with a disorder. In an embodiment, two or more treatments are delivered prophylactically, *e.g.*, before the subject has the disorder or is diagnosed with the disorder. In another embodiment, the two or more treatments are delivered after the subject has developed or diagnosed with the disorder. In an embodiment, the
20 delivery of one treatment is still occurring when the delivery of the second begins, so that there is overlap. This is sometimes referred to herein as “simultaneous” or “concurrent delivery.” In other embodiments, the delivery of one treatment ends before the delivery of the other treatment begins. In an embodiment of either case, the treatment is more effective because of combined administration. For example, the second treatment is more effective, *e.g.*, an equivalent effect is seen with less of the
25 second treatment, or the second treatment reduces symptoms to a greater extent, than would be seen if the second treatment were administered in the absence of the first treatment, or the analogous situation is seen with the first treatment. In an embodiment, delivery is such that the reduction in a symptom, or other parameter related to the disorder is greater than what would be observed with one treatment delivered in the absence of the other. The effect of the two treatments can be partially
30 additive, wholly additive, or greater than additive. The delivery can be such that an effect of the first treatment delivered is still detectable when the second is delivered.

 In an embodiment, the IL-2 agent is administered in combination with a second therapy (*e.g.*, an additional agent) to treat or prevent a disorder described herein. In an embodiment, the additional agent is a second IL-2 agent, *e.g.*, an IL-2 agent different from a first IL-2 agent. Exemplary IL-2
35 agents that can be used in combination include, but are not limited to, any combination of the IL-2 agents described herein. In another embodiment, the additional agent is other than an IL-2 agent. For example, the additional agent can be a small molecule or a nucleic acid molecule. In yet another

embodiment, the second therapy is chosen from a surgery, a radiation therapy, a cell therapy (*e.g.*, a stem cell therapy), or an organ or tissue transplantation.

In an embodiment, the second therapy comprises a therapy chosen from one or more of: an androgen replacement therapy, an antihormone therapy, an antiserum therapy, an autologous immune
5 enhancement therapy, a biotherapy, a blood irradiation therapy, a brachytherapy, a cardiac resynchronization therapy, a cell therapy, a cell transfer therapy, a chelation therapy, a chemotherapy, a chrysotherapy, a cobalt therapy, a cold compression therapy, a cryotherapy, an electroconvulsive therapy, an electromagnetic therapy, an electron therapy, an electrotherapy, an enzyme replacement therapy, an epigenetic therapy, an estrogen replacement therapy, an extracorporeal shockwave
10 therapy, a fast neutron therapy, a fluoride therapy, a gene therapy, a heat therapy, a helminthic therapy, a hormone therapy, a hormone replacement therapy, a host modulatory therapy, a hyperbaric oxygen therapy, a hyperthermia therapy, an immunosuppressive therapy, an immunotherapy, an intraoperative electron radiation therapy, an intraoperative radiation therapy, an inversion therapy, a laser therapy, a light therapy, a lithium therapy, a low level laser therapy, a magnet therapy, a
15 magnetic resonance therapy, a medical gas therapy, a medical nutrition therapy, a molecular chaperone therapy, a molecular therapy, a monoclonal antibody therapy, a negative air ionization therapy, a neutron capture therapy, a neutron therapy, an oral rehydration therapy, an osmotherapy, an oxygen therapy, an ozone therapy, a palliative therapy, a particle therapy, a phage therapy, a phonemic neurological hypochromium therapy, a photodynamic therapy, a phototherapy, a
20 photothermal therapy, a physical therapy, a prolotherapy, a protein therapy, a proton therapy, a pulsed electromagnetic field therapy, a PUVA therapy, a radiation therapy, a rehydration therapy, a respiratory therapy, salvage therapy, a serotherapy, a stem cell therapy, a stereotactic radiation therapy, a targeted therapy, a thermotherapy, a TK cell therapy, a tolerogenic therapy, a transdermal continuous oxygen therapy, an ultraviolet light therapy, or a virotherapy.

25 Exemplary therapies that can be used in combination with an IL-2 agent described herein to treat or prevent other disorders are also described in the section of “Methods of Treating or Preventing Disorders” herein.

The present disclosure also includes any of the following numbered paragraphs:

- 30 1. An interleukin-2 (IL-2) agent comprising a human IL-2 variant comprising an amino acid alteration (*e.g.*, substitution) at one or more position(s) chosen from: T3, H16, I28, K35, R38, F42, E68, V69, Q74, D84, S87, N88, I92, C125, Q126, or a combination thereof.
2. The IL-2 agent of paragraph 1, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, or a combination thereof.
- 35 3. The IL-2 agent of paragraph 1 or 2, comprising an amino acid alteration (*e.g.*, substitution) at positions V69 and Q74.
4. The IL-2 agent of any one of paragraphs 1-3, wherein the amino acid substitution is V69A.

5. The IL-2 agent of any one of paragraphs 1-4, wherein the amino acid substitution is Q74P.
6. The IL-2 agent of any one of paragraphs 1-5, comprising an amino acid alteration (*e.g.*, substitution) at position H16, I92, D84, or a combination thereof.
7. The IL-2 agent of any one of paragraphs 1-6, comprising an amino acid alteration (*e.g.*, substitution) at position H16, optionally wherein the amino acid substitution is H16N, H16L, or H16D.
8. The IL-2 agent of paragraph 7, wherein the amino acid substitution is H16N.
9. The IL-2 agent of paragraph 7, wherein the amino acid substitution is H16L.
10. The IL-2 agent of any one of paragraphs 1-9, comprising an amino acid alteration (*e.g.*, substitution) at position at I92, optionally wherein the amino acid substitution is I92S.
11. The IL-2 agent of any one of paragraphs 1-10, comprising an amino acid alteration (*e.g.*, substitution) at position D84, optionally wherein the amino acid substitution is D84V.
12. The IL-2 agent of any one of paragraphs 1-11, comprising an amino acid alteration (*e.g.*, substitution at position K35, R38, F42, E68, or a combination thereof).
- 15 13. The IL-2 agent of any one of paragraphs 1-12, comprising an amino acid alteration (*e.g.*, substitution) at position K35, optionally wherein the amino acid substitution is K35E.
14. The IL-2 agent of any one of paragraphs 1-13, comprising an amino acid alteration (*e.g.*, substitution) at position R38, optionally wherein the amino acid substitution is R38E, R38N or R38Q.
15. The IL-2 agent of paragraph 14, wherein the amino acid substitution is R38N.
- 20 16. The IL-2 agent of paragraph 15, wherein the amino acid substitution is R38Q.
17. The IL-2 agent of any one of paragraphs 1-16, comprising an amino acid alteration (*e.g.*, substitution) at position F42, optionally wherein the amino acid substitution is F42K or F42Q.
18. The IL-2 agent of paragraph 17, wherein the amino acid substitution is F42Q.
19. The IL-2 agent of paragraph 1, comprising an amino acid alteration (*e.g.*, substitution):
 - 25 (i) at position V69 and Q74, and/or at position K35; and
 - (ii) at position H16, I92, or D84; and optionally
 - (iii) at position R38, F42, E68, or a combination thereof.
20. The IL-2 agent of paragraph 1, comprising an amino acid alteration (*e.g.*, substitution):
 - (i) at position V69 and Q74, and/or at position K35; and
 - 30 (ii) at position H16, I92, or D84; and
 - (iii) at position R38, F42, E68, or a combination thereof.
21. The IL-2 agent of paragraph 1, comprising an amino acid alteration (*e.g.*, substitution):
 - (i) at position V69 and Q74, and/or at position K35; and
 - (ii) at position H16, I92, or D84; or
 - 35 (iii) at position R38, F42, E68, or a combination thereof.
22. The IL-2 agent of paragraph 1, comprising an amino acid alteration (*e.g.*, substitution):
 - (i) at position V69 and Q74; and/or at position K35; and

(ii) at position H16, I92, D84, or a combination thereof, and

(iii) at position R38, F42, E68, or a combination thereof.

23. The IL-2 agent of any one of paragraphs 19-22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and H16, optionally wherein the amino acid substitution is V69A, Q74P, and H16N or H16L, respectively, optionally wherein the amino acid substitutions are V69A, Q74P, and H16L.
24. The IL-2 agent of any one of paragraphs 19-22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and I92, optionally wherein the amino acid substitution is V69A, Q74P, and I92S, respectively.
25. The IL-2 agent of any one of paragraphs 19-22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and D84, optionally wherein the amino acid substitution is V69A, Q74P, and D84V, respectively.
26. The IL-2 agent of paragraph 21, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38Q, respectively.
27. The IL-2 agent of paragraph 21, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and F42, optionally wherein the amino acid substitution is V69A, Q74P, and F42Q, respectively.
28. The IL-2 agent of paragraph 21, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38N, respectively.
29. The IL-2 agent of paragraph 21, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, and R38, optionally wherein the amino acid substitution is V69A, Q74P, and R38E, respectively.
30. The IL-2 agent of any one of paragraphs 19-22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, and H16, optionally wherein the amino acid substitution is V69A, Q74P, K35E, and H16N or H16L, respectively.
31. The IL-2 agent of paragraph 30, wherein the amino acid substitution is V69A, Q74P, K35E, and H16N.
32. The IL-2 agent of paragraph 30, wherein the amino acid substitution is V69A, Q74P, K35E, and H16L.
33. The IL-2 agent of any one of paragraphs 19, 20, or 22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, K35, H16, and R38, optionally wherein the amino acid substitution is V69A, Q74P, K35E, H16N, and R38N, respectively.
34. The IL-2 agent of any one of paragraphs 19, 20, or 22, comprising an amino acid alteration (*e.g.*, substitution) at position V69, Q74, H16, and R38, optionally wherein the amino acid

substitution is V69A, Q74P, H16N or H16L, and R38N or R38Q, respectively, optionally wherein the amino acid substitutions are V69A, Q74P, H16N or H16L, and R38Q.

35. The IL-2 agent of paragraph 34, wherein the amino acid substitutions are V69A, Q74P, H16L, and R38Q.

5 36. The IL-2 agent of any one of paragraphs 1-35, comprising an amino acid alteration (*e.g.*, substitution) at position I28, E68, S87, N88, Q126, or a combination thereof.

37. The IL-2 agent of any one of paragraphs 1-36, comprising an amino acid alteration (*e.g.*, substitution) at position I28, optionally wherein the amino acid substitution is I28T or I28F.

10 38. The IL-2 agent of any one of paragraphs 1-37, comprising an amino acid alteration (*e.g.*, substitution) at position E68, optionally wherein the amino acid substitution is E68Q or E68N.

39. The IL-2 agent of any one of paragraphs 1-38, comprising an amino acid alteration (*e.g.*, substitution) at position S87, optionally wherein the amino acid substitution is S87R.

15 40. The IL-2 agent of any one of paragraphs 1-39, comprising an amino acid alteration (*e.g.*, substitution) at position N88, optionally wherein the amino acid substitution is N88S, N88L, or N88D.

41. The IL-2 agent of any one of paragraphs 1-40, comprising an amino acid alteration (*e.g.*, substitution) at position Q126, optionally wherein the amino acid substitution is Q126T, Q126K, or Q126R.

20 42. The IL-2 agent of any one of paragraphs 1-41, comprising an amino acid alteration (*e.g.*, substitution) at positions C125.

43. The IL-2 agent of paragraph 42, wherein the amino acid substitution is C125S.

44. The IL-2 agent of any one of paragraphs 1-43, comprising an amino acid alteration (*e.g.*, substitution) at position T3.

45. The IL-2 agent of paragraph 44, wherein the amino acid substitution is T3A.

25 46. The IL-2 agent of any one of paragraphs 1-45, comprising an amino acid alteration (*e.g.*, substitution) at positions V69, Q74, and C125, optionally wherein the amino acid substitution is V69A, Q74P, and C125S, respectively.

47. The IL-2 agent of paragraph 46, further comprising an amino acid alteration (*e.g.*, substitution) at position T3, H16, I92, or a combination thereof.

30 48. The IL-2 agent of paragraph 46 or 47, comprising an amino acid alteration (*e.g.*, substitution) at positions H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16N or H16L, V69A, Q74P, and C125S, respectively.

35 49. The IL-2 agent of any of paragraphs 46-48, comprising an amino acid alteration (*e.g.*, substitution) at positions H16, V69, Q74, and C125, optionally wherein the amino acid substitution is H16L, V69A, Q74P, and C125S, respectively.

50. The IL-2 agent of paragraph 48 or 49, wherein the amino acid substitution is H16L, V69A, Q74P, and C125S.

51. The IL-2 agent of paragraph 48, wherein the amino acid substitution is H16N, V69A, Q74P, and C125S.
52. The IL-2 agent of any of paragraphs 46-48, comprising an amino acid alteration (*e.g.*, substitution) at positions H16, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is H16L, V69A, Q74P, I92S, and C125S, respectively.
53. The IL-2 agent of paragraph 46 or 47, comprising an amino acid alteration (*e.g.*, substitution) at positions T3, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, V69A, Q74P, and C125S, respectively.
54. The IL-2 agent of paragraph 53, comprising an amino acid alteration (*e.g.*, substitution) at positions T3, H16, V69, Q74, and C125, optionally wherein the amino acid substitution is T3A, H16N or H16L, V69A, Q74P, and C125S, respectively.
55. The IL-2 agent of paragraph 53, comprising an amino acid alteration (*e.g.*, substitution) at positions T3, V69, Q74, I92, and C125, optionally wherein the amino acid substitution is T3A, H16N, V69A, Q74P, I92S, and C125S, respectively.
56. The IL-2 agent of paragraph 1, wherein the human IL-2 variant comprises an amino acid sequence chosen from: SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, SEQ ID NO: 1002, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.
57. The IL-2 agent of paragraph 56, wherein the human IL-2 variant comprises the amino acid sequence shown as SEQ ID NO: 4, SEQ ID NO: 5, or a functional fragment thereof, or an amino acid sequence with at least 80%, 85%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or more sequence identity thereof, or differing by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 25, or 30 amino acids thereto.
58. The IL-2 agent of any one of the preceding paragraphs, wherein the human IL-2 variant is fused to a non-IL-2 moiety by a linker, wherein the linker is a polypeptide linker, optionally wherein the polypeptide linker is a flexible linker, a rigid linker, or a cleavable linker.
59. The IL-2 agent of paragraph 58, wherein the polypeptide linker is a Gly-Ser linker (*e.g.*, a (G₄S)_n linker, wherein n = 1, 2, 3, 4, 5, 6 or more (SEQ ID NO: 1020)), a proline-rich extended linker (*e.g.*, V1 GPC, V2, GPGc, V3 GcGcP, cellulase linker 4, cellulase linker 4), a rigid linker (*e.g.*, A(EAAAK)_nA, wherein n = 2, 3, 4, 5, or more (SEQ ID NO: 1021); REPR_12), a non-GS linker (*e.g.*,

(GGGSA)_n, wherein n = 1, 2, 3, 4, 5, or more (SEQ ID NO: 1022)), or an immunoglobulin hinge region or portion thereof.

60. The IL-2 agent of paragraph 58 or 59, wherein the polypeptide linker is a Gly-Ser linker comprising (G₄S)₁ (SEQ ID NO: 1023), (G₄S)₂ (SEQ ID NO: 1024), (G₄S)₃ (SEQ ID NO: 1025),
5 (G₄S)₄ (SEQ ID NO: 48), (G₄S)₅ (SEQ ID NO: 1026), or (G₄S)₆ (SEQ ID NO: 1027).

61. The IL-2 agent of paragraph 60, wherein the polypeptide linker is a Gly-Ser linker comprising (G₄S)₄ (SEQ ID NO: 48).

62. The IL-2 agent of paragraph 58, wherein the polypeptide linker comprises an amino acid sequence chosen from SEQ ID NO: 48, SEQ ID NO: 49, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID
10 NO: 52, SEQ ID NO: 53, SEQ ID NO: 54, or SEQ ID NO: 55.

63. The IL-2 agent of paragraph 62, wherein the polypeptide linker comprises the amino acid sequence of SEQ ID NO: 48.

64. The IL-2 agent of any one of paragraphs 58-63, wherein the non-IL-2 moiety is an immunoglobulin Fc region, or a fragment or portion thereof.

15 65. The IL-2 agent of paragraph 64, wherein the immunoglobulin Fc region comprises an IgG Fc region, an IgD Fc region, an IgA Fc region, an IgM Fc region, or an IgE Fc region, or fragment or portion thereof.

66. The IL-2 agent of paragraph 65, wherein the IgG Fc region comprises a wild type human IgG1 Fc region, a wild type IgG2 Fc region, or a wild type human IgG4 Fc region, or a fragment or
20 portion thereof.

67. The IL-2 agent of paragraph 65, wherein the IgG Fc region comprises a mutant IgG1 (*e.g.*, IgG1 m3 allotype) or mutant IgG4 Fc region, or a fragment or portion thereof.

68. The IL-2 agent of paragraph 67, comprising a mutant IgG4 Fc region, or a fragment or portion thereof, wherein the mutant IgG4 Fc region is human.

25 69. The IL-2 agent of paragraph 67 or 68, wherein the mutant IgG4 Fc region, or fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Ser228, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Ser228 is S228P.

70. The IL-2 agent of any one of paragraphs 67-69, wherein the mutant IgG4 Fc region, or fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Arg409,
30 numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Arg409 is R409K.

71. The IL-2 agent of any one of paragraphs 67-70, wherein the mutant IgG4 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations
35 (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively.

72. The IL-2 agent of paragraph 67 or 68, wherein the mutant IgG4 Fc region comprises an amino acid sequence chosen from SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, or SEQ ID NO: 47.

73. The IL-2 agent of paragraph 67, comprising a mutant IgG1 Fc region, or a fragment or portion thereof, wherein the mutant IgG1 Fc region is human.
74. The IL-2 agent of paragraph 67 or 73, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Asn297, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Asn297 is N297G.
75. The IL-2 agent of paragraph 67 or 73, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Leu234, Leu235, and Pro329, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are L234A, L235A, and P329G, respectively.
76. The IL-2 agent of paragraphs 67 or 73-75, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively.
77. The IL-2 agent of paragraph 67 or 73, wherein the mutant IgG1 Fc region comprises an amino acid sequence chosen from SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, or SEQ ID: 1003.
78. The IL-2 agent of paragraph 67 or 73, wherein the mutant IgG1 Fc region comprises the amino acid sequence of SEQ ID NO: 1003 or a sequence with at least 95% sequence identity thereto.
79. The IL-2 agent of any one of paragraphs 58-77, wherein the non-IL-2 moiety inhibits or decreases the ability of the IL-2 agent to elicit Fc-receptor-mediated immune effector functions.
80. An interleukin-2 (IL-2) agent comprising an IL-2 variant comprising an amino acid sequence chosen from SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, or SEQ ID NO: 1002, or a functional fragment thereof; wherein the IL-2 agent comprises a Gly-Ser linker, optionally wherein the Gly-Ser linker comprises (G₄S)₄ (SEQ ID NO: 48), and wherein the IL-2 variant is fused by the Gly-Ser linker to an IgG Fc region comprising an amino acid sequence chosen from SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47, or SEQ ID NO: 1003.
81. An IL-2 agent of paragraph 80, wherein the IL-2 agent comprises the IL-2 variant sequence comprising an amino acid sequence shown as SEQ ID NO: 4 or SEQ ID NO: 5.

82. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 61, SEQ ID NO: 62, SEQ ID NO: 63, SEQ ID NO: 64, SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO: 73, SEQ ID NO: 74, SEQ ID NO: 75, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO: 78, SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 81, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 1004, SEQ ID NO: 1005, SEQ ID NO: 1006, SEQ ID NO: 1007, SEQ ID NO: 1008, or SEQ ID NO: 1009, or a functional fragment thereof.
83. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 1004, SEQ ID NO: 1005, SEQ ID NO: 1006, SEQ ID NO: 1007, SEQ ID NO: 1008, or SEQ ID NO: 1009 or a functional fragment thereof
84. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 94, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, SEQ ID NO: 98, SEQ ID NO: 99, SEQ ID NO: 100, SEQ ID NO: 101, SEQ ID NO: 102, SEQ ID NO: 103, SEQ ID NO: 104, SEQ ID NO: 105, SEQ ID NO: 106, SEQ ID NO: 107, SEQ ID NO: 108, SEQ ID NO: 109, SEQ ID NO: 110, SEQ ID NO: 111, SEQ ID NO: 112, SEQ ID NO: 113, SEQ ID NO: 114, SEQ ID NO: 115, SEQ ID NO: 116, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 120, SEQ ID NO: 121, SEQ ID NO: 122, SEQ ID NO: 123, SEQ ID NO: 124, SEQ ID NO: 125, SEQ ID NO: 126, SEQ ID NO: 127, SEQ ID NO: 128, SEQ ID NO: 129, SEQ ID NO: 130, or SEQ ID NO: 131, or a functional fragment thereof.
85. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 132, SEQ ID NO: 133, SEQ ID NO: 134, SEQ ID NO: 135, SEQ ID NO: 136, SEQ ID NO: 137, SEQ ID NO: 138, SEQ ID NO: 139, SEQ ID NO: 140, SEQ ID NO: 141, SEQ ID NO: 142, SEQ ID NO: 143, SEQ ID NO: 144, SEQ ID NO: 145, SEQ ID NO: 146, SEQ ID NO: 147, SEQ ID NO: 148, SEQ ID NO: 149, SEQ ID NO: 150, SEQ ID NO: 151, SEQ ID NO: 152, SEQ ID NO: 153, SEQ ID NO: 154, SEQ ID NO: 155, SEQ ID NO: 156, SEQ ID NO: 157, SEQ ID NO: 158, SEQ ID NO: 159, SEQ ID NO: 160, SEQ ID NO: 161, SEQ ID NO: 162, SEQ ID NO: 163, SEQ ID NO: 164, SEQ ID NO: 165, SEQ ID NO: 166, SEQ ID NO: 167, SEQ ID NO: 168, or SEQ ID NO: 169, or a functional fragment thereof.
86. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 170, SEQ ID NO: 171, SEQ ID NO: 172, SEQ ID NO: 173, SEQ ID NO: 174, SEQ ID NO: 175, SEQ ID NO: 176, SEQ ID NO: 177, SEQ ID NO: 178, SEQ ID NO: 179, SEQ ID NO: 180, SEQ ID NO: 181, SEQ ID NO: 182, SEQ ID NO: 183, SEQ ID NO: 184, SEQ ID NO: 185, SEQ ID NO: 186, SEQ ID NO: 187, SEQ ID NO: 188, SEQ ID NO: 189, SEQ ID NO: 190, SEQ ID NO: 191, SEQ ID NO: 192, SEQ ID NO: 193, SEQ ID NO: 194, SEQ ID NO: 195, SEQ ID NO: 196, SEQ ID NO: 197, SEQ ID NO: 198, SEQ ID NO: 199, SEQ ID NO: 200, SEQ ID NO: 201, SEQ ID NO: 202, SEQ ID NO:

203, SEQ ID NO: 204, SEQ ID NO: 205, SEQ ID NO: 206, or SEQ ID NO: 207, or a functional fragment thereof.

87. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 208, SEQ ID NO: 209, SEQ ID NO: 210, SEQ ID NO: 211, SEQ ID NO: 212, SEQ ID NO: 213, SEQ ID NO: 214, SEQ ID NO: 215, SEQ ID NO: 216, SEQ ID NO: 217, SEQ ID NO: 218, SEQ ID NO: 219, SEQ ID NO: 220, SEQ ID NO: 221, SEQ ID NO: 222, SEQ ID NO: 223, SEQ ID NO: 224, SEQ ID NO: 225, SEQ ID NO: 226, SEQ ID NO: 227, SEQ ID NO: 228, SEQ ID NO: 229, SEQ ID NO: 230, SEQ ID NO: 231, SEQ ID NO: 232, SEQ ID NO: 233, SEQ ID NO: 234, SEQ ID NO: 235, SEQ ID NO: 236, SEQ ID NO: 237, SEQ ID NO: 238, SEQ ID NO: 239, SEQ ID NO: 240, SEQ ID NO: 241, SEQ ID NO: 242, SEQ ID NO: 243, SEQ ID NO: 244, or SEQ ID NO: 245, or a functional fragment thereof.

88. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 246, SEQ ID NO: 247, SEQ ID NO: 248, SEQ ID NO: 249, SEQ ID NO: 250, SEQ ID NO: 251, SEQ ID NO: 252, SEQ ID NO: 253, SEQ ID NO: 254, SEQ ID NO: 255, SEQ ID NO: 256, SEQ ID NO: 257, SEQ ID NO: 258, SEQ ID NO: 259, SEQ ID NO: 260, SEQ ID NO: 261, SEQ ID NO: 262, SEQ ID NO: 263, SEQ ID NO: 264, SEQ ID NO: 265, SEQ ID NO: 266, SEQ ID NO: 267, SEQ ID NO: 268, SEQ ID NO: 269, SEQ ID NO: 270, SEQ ID NO: 271, SEQ ID NO: 272, SEQ ID NO: 273, SEQ ID NO: 274, SEQ ID NO: 275, SEQ ID NO: 276, SEQ ID NO: 277, SEQ ID NO: 278, SEQ ID NO: 279, SEQ ID NO: 280, SEQ ID NO: 281, SEQ ID NO: 282, or SEQ ID NO: 283, or a functional fragment thereof.

89. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 284, SEQ ID NO: 285, SEQ ID NO: 286, SEQ ID NO: 287, SEQ ID NO: 288, SEQ ID NO: 289, SEQ ID NO: 290, SEQ ID NO: 291, SEQ ID NO: 292, SEQ ID NO: 293, SEQ ID NO: 294, SEQ ID NO: 295, SEQ ID NO: 296, SEQ ID NO: 297, SEQ ID NO: 298, SEQ ID NO: 299, SEQ ID NO: 300, SEQ ID NO: 301, SEQ ID NO: 302, SEQ ID NO: 303, SEQ ID NO: 304, SEQ ID NO: 305, SEQ ID NO: 306, SEQ ID NO: 307, SEQ ID NO: 308, SEQ ID NO: 309, SEQ ID NO: 310, SEQ ID NO: 311, SEQ ID NO: 312, SEQ ID NO: 313, SEQ ID NO: 314, SEQ ID NO: 315, SEQ ID NO: 316, SEQ ID NO: 317, SEQ ID NO: 318, SEQ ID NO: 319, SEQ ID NO: 320, or SEQ ID NO: 321, or a functional fragment thereof.

90. An interleukin-2 (IL-2) agent comprising an amino acid sequence chosen from SEQ ID NO: 322, SEQ ID NO: 323, SEQ ID NO: 324, SEQ ID NO: 325, SEQ ID NO: 326, SEQ ID NO: 327, SEQ ID NO: 328, SEQ ID NO: 329, SEQ ID NO: 330, SEQ ID NO: 331, SEQ ID NO: 332, SEQ ID NO: 333, SEQ ID NO: 334, SEQ ID NO: 335, SEQ ID NO: 336, SEQ ID NO: 337, SEQ ID NO: 338, SEQ ID NO: 339, SEQ ID NO: 340, SEQ ID NO: 341, SEQ ID NO: 342, SEQ ID NO: 343, SEQ ID NO: 344, SEQ ID NO: 345, SEQ ID NO: 346, SEQ ID NO: 347, SEQ ID NO: 348, SEQ ID NO: 349, SEQ ID NO: 350, SEQ ID NO: 351, SEQ ID NO: 352, SEQ ID NO: 353, SEQ ID NO: 354, SEQ ID NO:

355, SEQ ID NO: 356, SEQ ID NO: 357, SEQ ID NO: 358, or SEQ ID NO: 359, or a functional fragment thereof.

91. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 59, or a functional fragment thereof.
- 5 92. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 97, or a functional fragment thereof.
93. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 135, or a functional fragment thereof.
94. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 173, or a
10 functional fragment thereof.
95. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 211, or a functional fragment thereof.
96. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 249, or a functional fragment thereof.
- 15 97. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 287, or a functional fragment thereof.
98. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 325, or a functional fragment thereof.
99. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 66, or a
20 functional fragment thereof.
100. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 104, or a functional fragment thereof.
101. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 142, or a functional fragment thereof.
- 25 103. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 180, or a functional fragment thereof.
104. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 218, or a functional fragment thereof.
105. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 256, or a
30 functional fragment thereof.
106. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 294, or a functional fragment thereof.
107. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 332, or a functional fragment thereof.
- 35 108. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 60, or a functional fragment thereof.

109. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 98, or a functional fragment thereof.
110. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 136, or a functional fragment thereof.
- 5 111. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 174, or a functional fragment thereof.
112. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 212, or a functional fragment thereof.
113. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 250, or a
10 functional fragment thereof.
114. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 288, or a functional fragment thereof.
115. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 326, or a functional fragment thereof.
- 15 116. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 69, or a functional fragment thereof.
117. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 107, or a functional fragment thereof.
118. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 145, or a
20 functional fragment thereof.
119. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 183, or a functional fragment thereof.
120. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 221, or a functional fragment thereof.
- 25 121. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 259, or a functional fragment thereof.
122. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 297, or a functional fragment thereof.
123. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 335, or a
30 functional fragment thereof.
124. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1004, or a functional fragment thereof.
125. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1005, or a functional fragment thereof.
- 35 126. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1006, or a functional fragment thereof.

127. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1007, or a functional fragment thereof.

128. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1008, or a functional fragment thereof.

5 129. An interleukin-2 (IL-2) agent comprising the amino acid sequence of SEQ ID NO: 1009, or a functional fragment thereof.

130. The IL-2 agent of any one of the preceding paragraphs, wherein the amino acid alteration(s) (*e.g.*, substitution(s)) provides the IL-2 agent with at least one or more (*e.g.*, 2, 3, 4, 5, 6, 7, 8, or all) of the following properties relative to a reference IL-2 agent that does not comprise the amino acid alteration(s) (*e.g.*, substitution(s)):

- (i) enhanced or increased expression of the IL-2 agent;
- (ii) inhibited or decreased aggregation of the IL-2 agent;
- (iii) enhanced or increased stability of the IL-2 agent;
- (iv) enhanced or increased half-life of the IL-2 agent;
- 15 (v) inhibited or decreased turnover and/or clearance of the IL-2 agent;
- (vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially

unchanged binding of the IL-2 agent to human CD25;

- (vii) inhibited or decreased affinity of the IL-2 agent for human CD122;
- (viii) inhibited or decreased affinity of the IL-2 agent for human CD132; or

20 (ix) inhibited or decreased affinity of the IL-2 agent for the dimeric IL-2 receptor composed of human CD122 and human CD132;

- (x) selective binding to regulatory T cells (*e.g.*, Foxp3⁺ T cells);
- (xi) selective activation of the IL-2 signaling pathway in Tregs; and/or
- (xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg

25 expansion, activity, survival and/or proliferation.

131. The IL-2 agent of paragraph 130, wherein the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1031, SEQ ID NO: 1, or SEQ ID NO: 2, or a functional fragment thereof.

132. An interleukin-2 (IL-2) agent comprising: a human IL-2 variant comprising one or more amino acid alteration(s) (*e.g.*, substitution(s)) chosen from H16D, H16N, H16L, I28T, K35E, R38Q, R38N, R38E, F42K, F42Q, V69A, Q74P, D84V, S87R, N88L, N88S, I92S, C125S; a polypeptide linker; and a non-IL-2 moiety; wherein the amino acid alteration(s) (*e.g.*, substitution(s)) provide(s) the IL-2 agent with at least one or more of the following properties relative to a reference IL-2 agent that does not comprise the amino acid alteration(s) (*e.g.*, substitution(s)):

- (i) enhanced or increased expression of the IL-2 agent;
- 35 (ii) inhibited or decreased aggregation of the IL-2 agent;
- (iii) enhanced or increased stability of the IL-2 agent;
- (iv) enhanced or increased half-life of the IL-2 agent;

- (v) inhibited or decreased turnover and/or clearance of the IL-2 agent;
- (vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially unchanged binding of the IL-2 agent to human CD25;
- (vii) inhibited or decreased affinity of the IL-2 agent for human CD122;
- 5 (viii) inhibited or decreased affinity of the IL-2 agent for human CD132;
- (ix) inhibited or decreased affinity of the IL-2 agent for the dimeric IL-2 receptor composed of human CD122 and human CD132;
- (x) selective binding to regulatory T cells (*e.g.*, Foxp3+ T cells);
- (xi) selective activation of the IL-2 signaling pathway in Tregs; and/or
- 10 (xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg expansion, activity, survival, and/or proliferation.

133. The IL-2 agent of paragraph 132, wherein the human IL-2 variant comprises the amino acid alteration(s) (*e.g.*, substitution(s)):

- (i) C125S;
- 15 (ii) V69A, Q74P, and C125S;
- (iii) H16D, V69A, Q74P, and C125S;
- (iv) H16N, V69A, Q74P, and C125S;
- (v) H16L, V69A, Q74P, and C125S;
- (vi) I28T, V69A, Q74P, and C125S;
- 20 (vii) V69A, Q74P, D84V, and C125S;
- (viii) V69A, Q74P, S87R, and C125S;
- (ix) V69A, Q74P, N88L, and C125S;
- (x) V69A, Q74P, N88S, and C125S;
- (xi) V69A, Q74P, I92S, and C125S;
- 25 (xii) K35E, V69A, Q74P, and C125S;
- (xiii) K35E, H16N, V69A, Q74P, and C125S;
- (xiv) K35E, H16L, V69A, Q74P, and C125S;
- (xv) K35E, D84V, V69A, Q74P, and C125S;
- (xvi) K35E, I92S, V69A, Q74P, and C125S;
- 30 (xvii) R38Q, V69A, Q74P, and C125S;
- (xviii) R38Q, H16N, V69A, Q74P, and C125S;
- (xix) R38Q, H16L, V69A, Q74P, and C125S;
- (xx) R38Q, D84V, V69A, Q74P, and C125S;
- (xxi) R38Q, I92S, Q74P, and C125S;
- 35 (xxii) R38N, V69A, Q74P, and C125S;
- (xxiii) R38N, H16N, V69A, Q74P, and C125S;
- (xxiv) R38N, H16L, V69A, Q74P, and C125S;

- (xxv) R38N, D84V, V69A, Q74P, and C125S;
- (xxvi) R38N, I92S, Q74P, and C125S;
- (xxvii) R38E, V69A, Q74P, and C125S;
- (xxviii) F42K, V69A, Q74P, and C125S;
- 5 (xxix) F42Q, V69A, Q74P, and C125S;
- (xxx) F42A, Y45A, L72G, N88D, V69A, Q74P, and C125S;
- (xxxi) R38N, S87R, V69A, Q74P, and C125S;
- (xxxii) R38E, H16N, V69A, Q74P, and C125S;
- (xxxiii) R38E, D84V, V69A, Q74P, and C125S;
- 10 (xxxiv) R38E, S87R, V69A, Q74P, and C125S;
- (xxxv) R38E, I92S, V69A, Q74P, and C125S;
- (xxxvi) F42Q, H16N, V69A, Q74P, and C125S;
- (xxxvii) F42Q, I92S, V69A, Q74P, and C125S;
- (xxxviii) K35E, R38N, H16N, V69A, Q74P, and C125S;
- 15 (xxxix) T3A, H16N, V69A, Q74P, and C125S;
- (xl) T3A, H16L, V69A, Q74P, and C125S; or
- (xli) T3A, V69A, Q74P, I92S, and C125S.

134. The IL-2 agent of paragraph 133, wherein the human IL-2 variant comprises the amino acid alteration(s) (*e.g.*, substitution(s)): (i) H16N, V69A, Q74P and C125S, or (ii) H16L, V69A, Q74P and
 20 C125S.

135. An interleukin-2 (IL-2) agent comprising a human IL-2 variant comprising an amino acid sequence chosen from SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 11, SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO:
 25 18, SEQ ID NO: 19, SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, SEQ ID NO: 31, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 1000, SEQ ID NO: 1001, or SEQ ID NO: 1002, or a functional fragment thereof or an amino acid sequence with at least 90% sequence
 30 identity thereof; a polypeptide linker; and a non-IL-2 moiety; wherein the IL-2 agent exhibits at least one or more of the following properties relative to a reference IL-2 agent that does not comprise the human IL-2 polypeptide variant:

- (i) enhanced or increased expression of the IL-2 agent;
- (ii) inhibited or decreased aggregation of the IL-2 agent;
- 35 (iii) enhanced or increased stability of the IL-2 agent;
- (iv) enhanced or increased half-life of the IL-2 agent;
- (v) inhibited or decreased turnover and/or clearance of the IL-2 agent;

(vi) inhibited or decreased (*e.g.*, moderately inhibited or decreased) or substantially unchanged binding of the IL-2 agent to human CD25;

(vii) inhibited or decreased affinity of the IL-2 agent for human CD122;

(viii) inhibited or decreased affinity of the IL-2 agent for human CD132;

5 (ix) inhibited or decreased affinity of the IL-2 agent for dimeric IL-2 receptor composed of human CD122 and human CD132;

(x) selective binding to regulatory T cells (*e.g.*, Foxp3+ T cells); or

(xi) selective activation of the IL-2 signaling pathway in Tregs; or

(xii) enhanced or increased, or reduced or decreased, ability to induce or promote Treg
10 expansion, activity and/or proliferation.

136. The IL-2 agent of paragraph 135, wherein the human IL-2 variant comprises the amino acid sequence shown as SEQ ID NO: 4 or SEQ ID NO: 5.

137. The IL-2 agent of any one of paragraphs 132-136, wherein the human IL-2 variant is fused to a non-IL-2 moiety by a linker, wherein the linker is a polypeptide linker, optionally wherein the
15 polypeptide linker is a flexible linker, a rigid linker, or a cleavable linker.

138. The IL-2 agent of paragraph 137, wherein the polypeptide linker is a Gly-Ser linker (*e.g.*, a (G4S)_n linker, wherein n = 1, 2, 3, 4, 5, 6 or more (SEQ ID NO: 1020)), a proline-rich extended linker (*e.g.*, V1 GPC, V2, GPGc, V3 GcGcP, cellulase linker 4, cellulase linker 4), a rigid linker (*e.g.*, A(EAAAK)_nA, wherein n = 2, 3, 4, 5, or more (SEQ ID NO: 1021); REPR_12), a non-GS linker
20 (*e.g.*, (GGGSA)_n, wherein n = 1, 2, 3, 4, 5, or more (SEQ ID NO: 1022)), or an immunoglobulin hinge region or portion thereof.

139. The IL-2 agent of paragraph 137 or 138, wherein the polypeptide linker is a Gly-Ser linker comprising (G₄S)₁ (SEQ ID NO: 1023), (G₄S)₂ (SEQ ID NO: 1024), (G₄S)₃ (SEQ ID NO: 1025), (G₄S)₄ (SEQ ID NO: 48), (G₄S)₅ (SEQ ID NO: 1026), or (G₄S)₆ (SEQ ID NO: 1027).

25 140. The IL-2 agent of paragraph 130, wherein the polypeptide linker is a Gly-Ser linker comprising (G₄S)₄ (SEQ ID NO: 48).

141. The IL-2 agent of paragraph 137, wherein the polypeptide linker comprises an amino acid sequence chosen from SEQ ID NO: 48, SEQ ID NO: 49, SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, SEQ ID NO: 54, or SEQ ID NO: 55.

30 142. The IL-2 agent of paragraph 141, wherein the polypeptide linker comprises the amino acid sequence of SEQ ID NO: 48.

143. The IL-2 agent of any one of paragraphs 132-142, wherein the non-IL-2 moiety is an immunoglobulin Fc region, or a fragment or portion thereof.

144. The IL-2 agent of paragraph 143, wherein the immunoglobulin Fc region comprises an IgG
35 Fc region, an IgD Fc region, an IgA Fc region, an IgM Fc region, or an IgE Fc region, or fragment or portion thereof.

145. The IL-2 agent of paragraph 144, wherein the IgG Fc region comprises a wild type human IgG1 Fc region, a wild type IgG2 Fc region, or a wild type human IgG4 Fc region, or a fragment or portion thereof.
146. The IL-2 agent of paragraph 144, wherein the IgG Fc region comprises a mutant IgG1 (*e.g.*, IgG1 m3 allotype) or mutant IgG4 Fc region, or a fragment or portion thereof.
147. The IL-2 agent of paragraph 146, comprising a mutant IgG4 Fc region, or a fragment or portion thereof, wherein the mutant IgG4 Fc region is human.
148. The IL-2 agent of paragraph 146 or 147, wherein the mutant IgG4 Fc region, or fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Ser228, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Ser228 is S228P.
149. The IL-2 agent of any one of paragraphs 146-148, wherein the mutant IgG4 Fc region, or fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Arg409, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Arg409 is R409K.
150. The IL-2 agent of any one of paragraphs 146-149, wherein the mutant IgG4 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively.
151. The IL-2 agent of paragraph 146 or 147, wherein the mutant IgG4 Fc region comprises an amino acid sequence chosen from SEQ ID NO: 44, SEQ ID NO: 45, SEQ ID NO: 46, or SEQ ID NO: 47.
152. The IL-2 agent of paragraph 146, comprising a mutant IgG1 Fc region, or a fragment or portion thereof, wherein the mutant IgG1 Fc region is human.
153. The IL-2 agent of paragraph 146 or 152, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises an amino acid alteration (*e.g.*, substitution) at Asn297, numbering according to EU numbering, optionally wherein the amino acid alteration (*e.g.*, substitution) at Asn297 is N297G.
154. The IL-2 agent of paragraph 146 or 152, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Leu234, Leu235, and Pro329, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are L234A, L235A, and P329G, respectively.
155. The IL-2 agent of any one of paragraphs 146 or 152-154, wherein the mutant IgG1 Fc region, or a fragment or portion thereof, comprises amino acid alterations (*e.g.*, substitutions) at Thr307, Gln311, and Ala378, numbering according to EU numbering, optionally wherein the amino acid alterations (*e.g.*, substitutions) are T307Q, Q311V, and A378V, respectively.

156. The IL-2 agent of paragraph 146 or 152, wherein the mutant IgG1 Fc region comprises an amino acid sequence chosen from SEQ ID NO: 40, SEQ ID NO: 41, SEQ ID NO: 42, SEQ ID NO: 43, or SEQ ID NO: 1003.
157. The IL-2 agent of any one of paragraphs 132-156, wherein the non-IL-2 moiety inhibits or
5 decreases the ability of the IL-2 agent to elicit Fc-receptor-mediated immune effector functions.
158. The IL-2 agent of any one of paragraphs 132-157, wherein the reference IL-2 agent comprises the amino acid sequence of SEQ ID NO: 1031, SEQ ID NO: 1, or SEQ ID NO: 2.
159. The IL-2 agent of any one of the preceding paragraphs, which forms a dimer (*e.g.*, a homodimer or heterodimer).
- 10 160. The IL-2 agent of any one of the preceding paragraphs, comprising an IL-2 agent/anti-IL-2 antibody complex.
161. The IL-2 agent of any one of the preceding paragraphs, comprising a conjugate.
162. A pharmaceutical composition comprising the IL-2 agent of any one of the preceding paragraphs, and a pharmaceutically acceptable carrier.
- 15 163. A nucleic acid encoding the IL-2 agent of any one of the preceding paragraphs.
164. A vector (*e.g.*, expression vector) comprising the nucleic acid of paragraph 163.
165. A cell comprising the nucleic acid of paragraph 135 or the vector of paragraph 164.
166. A method of producing an IL-2 agent, comprising culturing (*e.g.*, maintaining) the cell of paragraph 156 under conditions permitting expression of the IL-2 agent.
- 20 167. The method of paragraph 157, further comprising obtaining the IL-2 agent.
168. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells (*e.g.*, *in vitro*, *ex vivo*, or *in vivo*) or administering to a subject in need thereof an effective amount of the IL-2 agent of any one of paragraphs 1-152, or the pharmaceutical composition of paragraph 153.
- 25 169. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells (*e.g.*, *in vitro*, *ex vivo*, or *in vivo*) or administering to a subject in need thereof an effective amount of the IL-2 agent of any one of paragraphs 1-161, or the pharmaceutical composition of paragraph 162.
170. A method of inducing immune tolerance in a subject in need thereof, comprising
30 administering an effective amount of the IL-2 agent of any one of paragraphs 1-161, or the pharmaceutical composition of paragraph 162.
171. A method of treating a disorder (*e.g.*, an autoimmune disease, a cancer) comprising administering to a subject in need thereof an effective amount of the IL-2 agent of any one of paragraphs 1-161, or the pharmaceutical composition of paragraph 162.
- 35 172. A composition for use in a method for the treatment of a disorder (*e.g.*, an autoimmune disease or a cancer), the method comprising administering to a subject in need thereof the IL-2 agent of any one of paragraph 1-161, or the pharmaceutical composition of paragraph 162.

173. A kit comprising the IL-2 agent of any one of paragraph 1-161, or the pharmaceutical composition of paragraph 162, and instructions for use.

174. A container comprising the IL-2 agent of any one of paragraph 1-161, or the pharmaceutical composition of paragraph 162.

5 175. A method of treating a disorder (*e.g.*, an autoimmune disease, a cancer) comprising administering to a subject in need thereof an effective amount of the nucleic acid of paragraph 163.

176. A composition for use in a method for the treatment of a disorder (*e.g.*, an autoimmune disease or a cancer), the method comprising administering to a subject in need thereof the nucleic acid of paragraph 163.

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The present disclosure further includes any of the following numbered embodiments:

1. An interleukin-2 (IL-2) variant, comprising:

(i) the amino acid substitution H16L or H16N, and/or the amino acid substitution I92S, and

(ii) the amino acid substitutions V69A, Q74P, and C125S,

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corresponding to wild-type human IL-2 (*e.g.*, SEQ ID NO: 1031).

2. The IL-2 variant of embodiment 1, further comprising the amino acid substitution T3A.

3. The IL-2 variant of embodiment 1 or 2, comprising the amino acid sequence of any of SEQ ID NOs: 4, 5, 11, 1000, 1001, or 1002, an amino acid sequence that is at least 95% identical thereto or differs by no more than 1, 2, 3, 4, or 5 amino acids therefrom, or a functional fragment thereof.

20

4. The IL-2 variant of any of embodiments 1-3, which selectively stimulates regulatory T cells (Tregs).

5. An IL-2 fusion protein comprising the IL-2 variant of any of embodiments 1-4.

6. The IL-2 fusion protein of embodiment 5, further comprising an Fc region.

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7. The IL-2 fusion protein of embodiment 6, wherein the Fc region comprises an Fc region of IgG1 allotype m3 comprising an N297G substitution according to EU numbering.

8. The IL-2 fusion protein of embodiment 6 or 7, wherein the Fc region comprises the amino acid sequence of SEQ ID NO: 1003, or an amino acid sequence that is at least 95% identical thereto or differs by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 amino acids therefrom, or a functional fragment thereof.

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9. The IL-2 fusion protein of any of embodiments 6-8, wherein the Fc region is fused to the C-terminus of the IL-2 variant.

10. The IL-2 fusion protein of any of embodiments 6-9, further comprising a linker.

11. The IL-2 fusion protein of embodiment 10, wherein the linker comprises (G₄S)₄ (SEQ ID NO: 48).

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12. The IL-2 fusion protein of any of embodiments 6-11, comprising an amino acid sequence of any of SEQ ID NOs: 1004, 1005, 1006, 1007, 1008, or 1009, an amino acid sequence that is at least

95% identical thereto or differs by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 amino acids therefrom, or a functional fragment thereof.

13. The IL-2 fusion protein of any of embodiments 6-12, which forms a dimer.
14. An IL-2 complex comprising the IL-2 variant of any of embodiments 1-4 and an anti-IL-2
5 antibody molecule.
15. An IL-2 conjugate comprising the IL-2 variant of any of embodiments 1-4 and a non-IL-2 moiety.
16. A pharmaceutical composition comprising the IL-2 variant of any of embodiments 1-4 and a pharmaceutically acceptable carrier.
- 10 17. A pharmaceutical composition comprising the IL-2 fusion protein of any of embodiments 5-13 and a pharmaceutically acceptable carrier.
18. A pharmaceutical composition comprising the IL-2 complex of embodiment 14 and a pharmaceutically acceptable carrier.
19. A pharmaceutical composition comprising the IL-2 conjugate of embodiment 15 and a
15 pharmaceutically acceptable carrier.
20. A nucleic acid encoding the IL-2 variant of any of embodiments 1-4.
21. A nucleic acid encoding the IL-2 fusion protein any of embodiments 5-13.
22. A nucleic acid encoding the IL-2 complex of embodiment 14.
23. A nucleic acid encoding the IL-2 conjugate of embodiment 15.
- 20 24. A vector comprising the nucleic acid of embodiment 20.
25. A vector comprising the nucleic acid of embodiment 21.
26. A vector comprising the nucleic acid of embodiment 22.
27. A vector comprising the nucleic acid of embodiment 23.
28. A cell comprising the nucleic acid of embodiment 20.
- 25 29. A cell comprising the nucleic acid of embodiment 21.
30. A cell comprising the nucleic acid of embodiment 22.
31. A cell comprising the nucleic acid of embodiment 23.
32. A method of producing an IL-2 variant, comprising culturing the cell of embodiment 28 under conditions that allow expression of the IL-2 variant.
- 30 33. A method of producing an IL-2 fusion protein, comprising culturing the cell of embodiment 29 under conditions that allow expression of the IL-2 fusion protein.
34. A method of producing an IL-2 complex, comprising culturing the cell of embodiment 30 under conditions that allow expression of the IL-2 complex.
35. A method of producing an IL-2 conjugate, comprising culturing the cell of embodiment 31
35 under conditions that allow expression of the IL-2 conjugate.
36. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in*

vivo, or administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.

37. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.

38. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.

39. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.

40. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.

41. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.

42. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.

43. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.

44. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.

45. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of embodiment 5-13.

46. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.

47. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.

48. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.
49. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.
- 5 50. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.
51. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.
52. A method of treating lupus nephritis, comprising administering to a subject in need thereof an
10 effective amount of the IL-2 variant of any of embodiments 1-4.
53. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.
54. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.
- 15 55. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.
56. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.
57. A method of treating autoimmune hepatitis, comprising administering to a subject in need
20 thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.
58. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of embodiment 14.
59. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.
- 25 60. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of embodiments 1-4.
61. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of embodiments 5-13.
62. A method of treating nephrotic syndrome, comprising administering to a subject in need
30 thereof an effective amount of the IL-2 complex of embodiment 14.
63. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of embodiment 15.
64. A kit comprising the IL-2 variant of any of embodiments 1-4 and instructions for use.
65. A kit comprising the IL-2 fusion protein of any of embodiments 5-13 and instructions for use.
- 35 66. A kit comprising the IL-2 complex of embodiment 14 and instructions for use.
67. A kit comprising the IL-2 conjugate of embodiment 15 and instructions for use.

68. The IL-2 variant of any of embodiments 1-4 for use in a method of inducing immune tolerance in a subject.
69. The IL-2 fusion protein of any of embodiments 5-13 for use in a method of inducing immune tolerance in a subject.
- 5 70. The IL-2 complex of embodiment 14 for use in a method of inducing immune tolerance in a subject.
71. The IL-2 conjugate of embodiment 15 for use in a method of inducing immune tolerance in a subject.
72. The IL-2 variant of any of embodiments 1-4 for use in a method of treating an autoimmune disease in a subject.
- 10 73. The IL-2 fusion protein of any of embodiments 5-13 for use in a method of an autoimmune disease in a subject.
74. The IL-2 complex of embodiment 14 for use in a method of an autoimmune disease in a subject.
- 15 75. The IL-2 conjugate of embodiment 15 for use in a method of an autoimmune disease in a subject.
76. The IL-2 variant of any of embodiments 1-4 for use in a method of treating lupus nephritis in a subject.
77. The IL-2 fusion protein of any of embodiments 5-13 for use in a method of treating lupus nephritis in a subject.
- 20 78. The IL-2 complex of embodiment 14 for use in a method of treating lupus nephritis in a subject.
79. The IL-2 conjugate of embodiment 15 for use in a method of treating lupus nephritis in a subject.
- 25 80. The IL-2 variant of any of embodiments 1-4 for use in a method of treating autoimmune hepatitis in a subject.
81. The IL-2 fusion protein of any of embodiments 5-13 for use in a method of treating autoimmune hepatitis in a subject.
82. The IL-2 complex of embodiment 14 for use in a method of treating autoimmune hepatitis in a subject.
- 30 83. The IL-2 conjugate of embodiment 15 for use in a method of treating autoimmune hepatitis in a subject.
84. The IL-2 variant of any of embodiments 1-4 for use in a method of treating nephrotic syndrome in a subject.
- 35 85. The IL-2 fusion protein of any of embodiments 5-13 for use in a method of treating nephrotic syndrome in a subject.

86. The IL-2 complex of embodiment 14 for use in a method of treating nephrotic syndrome in a subject.

87. The IL-2 conjugate of embodiment 15 for use in a method of treating nephrotic syndrome in a subject.

5

EXAMPLES

Example 1: Identification of Mutations That Prevent Aggregation of IL-2

A library of open reading frames (ORFs) encoding human IL-2 muteins was generated by site-saturation mutagenesis (a mutagenesis technique wherein the resulting library comprises a collection of ORFs each with single point mutations such that every amino acid is represented at every position within the ORF). To improve stability and prevent incorrect disulfide pairing, all IL-2 molecules discussed in the Examples contain the mutation C125S, as shown in **FIG. 1B**.

PCR amplicons comprising the library of ORFs encoding the IL-2 muteins were subsequently cloned into a yeast expression vector, allowing for fusion of each mutagenized human IL-2 mutein to an HA-tag and Myc-tag and to a yeast Aga2p polypeptide. The resulting yeast expression vector was used to transform yeast cells, as described in Boder and Wittrup (1997) *Nat Biotechnol* 15(6):553-557. Yeast cells clonally expressing the IL-2 mutein library were sorted once using fluorescence-activated cell sorting (FACS) for clones expressing full-length IL-2 muteins, as indicated by the presence of both Myc and HA tags.

The resulting population was then sorted twice to further select clones that showed both high expression of the encoded IL-2 mutein, as measured by staining with anti-Myc antibody and appropriate fluorescent secondary antibody, and high binding capacity of the expressed IL-2 mutein for the low affinity IL-2 receptor (IL2-Ra/CD25) (**FIG. 2**). Specifically, yeast cells were incubated with varying levels of recombinant human CD25 containing 6xHis tag ("6xHis" disclosed as SEQ ID NO: 1028), and the amount of bound CD25 was determined by flow cytometry using anti-6xHis antibody ("6xHis" disclosed as SEQ ID NO: 1028) and appropriate fluorescent secondary antibody. Sanger sequencing of individual clones and sequencing of the entire population using next-generation sequencing were used to identify enriched mutations.

The V69A mutation appeared with very high frequency after performing the sorting steps. This mutation has been reported, in conjunction with Q74P, to increase affinity for CD25 as described in Rao et al. (2005) *Biochem* 44:10696-10701. To confirm this observation, an IL-2 mutein comprising the amino acid substitutions V69A/Q74P was evaluated in the following assays. Briefly, individual yeast clones expressing IL-2 or IL-2 muteins having amino acid substitution(s) V69A/Q74P, E68Q, V69A, I114W, L721, N71Y, or M104D on their surface were titrated with recombinant CD25 to determine the binding affinity (K_D) and the relative fraction of active IL-2 molecules on the yeast surface (as determined by the relative binding capacity = the ratio of bound CD25 to expressed IL-2 mutein). Several mutations greatly increased the fraction of active IL-2

molecules expressed on the yeast cell surface, but none increased binding affinity for CD25. In disagreement with the previous report, V69A/Q74P decreased binding affinity to CD25 (**FIG. 3A**) while providing the highest observed fraction of active IL-2 molecules tested (**FIG. 3B**). These results indicate that the V69A/Q74P substitutions do not increase the binding affinity of the IL-2 molecule for CD25, but rather stabilize the IL-2 molecule in an active conformation sufficient for binding to CD25.

To further evaluate the effect of the V69A/Q74P substitutions on IL-2 stability, both the wild-type IL-2 sequence and the V69A/Q74P IL-2 sequence were cloned into a plasmid for expression in human cells as a fusion with the Fc portion of human IgG1, which includes the mutation N297G to remove a glycosylation site on the Fc (SEQ ID NO: 40). Both proteins were transfected into the Expi293 expression system (Thermo Fisher Scientific), purified from supernatant using protein A, and analyzed for stability. The fusion protein containing wild-type IL-2 (WT) was largely aggregated as determined by both analysis of its melting temperature (**FIG. 4A**) and by size-exclusion chromatography (**FIG. 4B**). Taken together, the combination of assays using yeast surface expression and analysis of IL-2-Fc fusion proteins exemplifies mutations, especially V69A and the combination V69A/Q74P, that increase the stability of IL-2 with no more than a minimal effect on binding affinity for CD25.

Example 2: Generation of IL-2 Muteins That Reduce Binding Affinity to Components of the Intermediate-Affinity IL-2 Receptor (CD122, CD132, or CD122/CD132 dimer)

IL-2 muteins were generated by using error-prone PCR to introduce random mutations into the nucleotide sequence of a gene encoding a human IL-2 polypeptide having the amino acid substitutions V69A and Q74P. Yeast cells expressing IL-2 muteins were incubated with recombinant 6xHis-tagged ("6xHis" disclosed as SEQ ID NO: 1028) CD25 followed by FACS analysis to isolate yeast cell clones expressing high-levels of fully functional/active IL-2 muteins as in Example 1.

FACS analysis was further used to isolate yeast cell clones expressing IL-2 muteins with reduced binding to the dimeric IL-2 receptor (CD122/CD132). The CD122/CD132 IL-2 receptor was generated as a heterodimer by expressing CD122 fused to an IgG1 Fc and CD132 fused to a different Fc with mutations introduced into each Fc so that they selectively pair with each other (a knob-hole heterodimer) when expressed together in the same cell (knob mutations S354C/T366Q and hole mutations Y349C/T366S/L368A/Y407V as reviewed in Liu et al. (2017) *Frontiers in Immunology* 8:38). After staining yeast cells with 10 nM (**FIG. 5A**) or 50 nM (**FIG. 5B**) of CD122/CD132 heterodimer, the bound receptor dimer was detected using anti-human Fc fluorescent secondary antibody and sorted with various gates as shown (**FIG. 5A and 5B**). Clones enriched by each sorting strategy were determined as in Example 1. Receptor binding affinities of selected yeast cell clones were measured by titrating yeast cells with a concentration range of CD122/CD132 heterodimer (**FIG. 6A**) or with recombinant extracellular domain of CD25 IL-2 receptor (**FIG. 6B**). The amount

of bound antibody was measured by flow cytometry on an Accuri C6 or IntelliCyt iQue flow cytometer and curve fitting used to determine the K_D (**Table 2**). Overall, mutations selected for reduced binding to CD122/CD132 Fc heterodimer show reduced binding affinity to that receptor but not to CD25.

5 Several of these IL-2 sequences, along with additional sequences identified from sequences not tested individually in the yeast display format, were transferred into plasmids for expression and purification as Fc fusion proteins as in Example 1. Specifically, the indicated mutation(s) was introduced into the base sequence of IL-2 V69A/Q74P/C125S (SEQ ID NO: 2), fused at its C-terminus to a 20-amino acid linker comprising the sequence (G₄S)₄ (SEQ ID NO: 48) followed by
 10 IgG1 Fc fragment containing N297G mutation (SEQ ID NO: 40). An Octet instrument (Molecular Devices, LLC) was used to determine affinity for CD122/CD132 heterodimer in this format. Specifically, IL-2-Fc fusion proteins were captured on anti-human Fc tips at optimized density, and association and dissociation rates determined across a range of concentrations of receptor. Representative data show that lower affinity was apparent when wild-type IL-2 was compared to a
 15 mutant form (**FIG 7**), with observed K_D values summarized in **Table 3**.

Additionally, the IL-2 mutein, IgG1 Fc fusion polypeptides were expressed as monomeric proteins by introducing mutations into the Fc domain that prevented their dimerization, but still allowed for purification by protein A. Additionally, an amino acid sequence was added to each molecule to allow site-specific biotinylation by the enzyme BirA. These fusions were first expressed
 20 in Expi293 cells, then purified by protein A chromatography, and were site-specifically biotinylated. An Octet instrument (Molecular Devices, LLC) and streptavidin biosensors, were used to capture the biotinylated fusions and determine the affinity for the CD122/CD132 heterodimer as well as CD25 in this format. Specifically, the CD122/CD132 knob-hole heterodimer was applied to the biosensor and association and dissociation rates were determined across a range of concentrations of receptor.
 25 Representative data with observed K_D values is summarized in **Table 11**.

These results exemplify the generation and isolation of IL-2 muteins with a range of affinities for the intermediate-affinity dimeric CD122/CD132 IL-2 receptor.

Table 2. IL-2 K_D for CD122/CD132 Fc heterodimer and CD25 extracellular domain measured in yeast surface display

Mutations (all contain V69A/Q74P)	CD122/CD132 KD (nM)	CD25 KD (pM)
None	1.7	90
I28T	7.0	Not tested
H16D	11.2	71
H16L	12.9	58

H16N	4.2	78
N88L	71	25
N88S	10.0	Not tested
Also tested with minimal effect observed		
I28F	1.7	50
E67K	2.8	85
R81F	1.1	58
N90T	1.7	60
N90H	1.9	81
E110Y	1.7	42
E110K	1.9	61
E116T	2.0	64
E116A	1.5	51
Q126T	1.9	98
Q126R	2.0	92
Q126K	2.2	109
Y31D	1.4	43
T37W	1.1	41
T102G	1.4	47
F103D	1.2	44
A108Q	1.2	49
T111A	1.1	60
I114V	1.3	43

Table 3. Selected IL-2-Fc fusion protein, K_D for CD122/CD132 Fc heterodimer and CD25 extracellular domain measured by Octet binding

Mutations (all contain V69A/Q74P)	CD122/CD132 KD (nM)	CD25 KD (nM)
None	3.9	1.0
H16N	8.7	0.8
I92S	12.9	0.6
D84V	21.1	0.6
Q126R	2.4	0.6
P34T	2.7	0.8
D109N	2.5	0.7

S87R	9.5	0.9
R120G	5.9	1.0
I24L	5.4	0.8
T101R	3.7	0.8
T41K	2.4	0.5
N88S	21.5	0.9
F42A, Y45A, L72G, N88D (negative control)	66.4	Not detected
R38A, F42K, N88D (negative control)	79.6	Not detected

Table 11. Selected IL-2-Fc fusion protein, fusion location, K_D for CD25 extracellular domain and CD122/CD132 Fc heterodimer measured by Octet binding

Mutations	IL-2 Fusion location	CD25	CD122/CD132
		K_D (nM)	K_D (nM)
None	N-terminus	0.19	5.30
None	C-terminus	0.54	3.04
H16N, V69A, Q74P, C125S	N-terminus	0.44	22.3
H16L, V69A, Q74P, C125S	N-terminus	0.36	122
N88D	C-terminus	1.01	24.0
V91K	C-terminus	0.69	7.56

Example 3: IL-2-Fc Fusion Proteins with Reduced CD122/CD132 Receptor Affinity Specifically Activate CD25+Foxp3+ T Regulatory Cells

The ability of IL2-Fc fusion proteins with altered IL-2 receptor affinity to specifically activate Treg cells was evaluated. Briefly, the ability of exemplary IL-2-Fc fusion proteins with mutations that reduce CD122/CD132 receptor affinity (H16N, H16L, I92S, D84V and S87R) to induce IL-2 signaling in CD25+Foxp3+ T regulatory cells was compared to induction of signaling in CD25^{High}Foxp3- T helper cells (defined as CD4+CD25^{High}Foxp3- lymphocytes) and in natural killer cells (NK cells, defined as CD3-CD56+ lymphocytes) using a flow cytometry-based pSTAT5 assay described further below (**FIG. 8**). Linker and Fc regions comprising the IL2-Fc fusion proteins in this Example were as described in Example 2. The CD25+ T helper cells are measured in this assay because they represent the most likely unintended target of an IL-2-based therapeutic intended to treat diseases or disorders involving aberrant immune activation. The parent IL-2-Fc fusion protein (SEQ ID NO: 2), that does not contain a mutation known to affect IL-2 receptor affinity and a similar

molecule in clinical trials (an irrelevant antibody with IL-2 fused to its C-terminus and containing the N88D mutation in IL-2 (C-term N88D, as described as IgG-(IL-2N88D)₂ in Peterson et al. Journal of Autoimmunity (2018) 95: 1-14) were used as comparators.

Frozen human PBMCs (ATCC) were thawed and divided into 96-well plates. After resting 2
5 hours cells were treated for 30 minutes with a range of concentrations of the IL-2-Fc fusion proteins, native IL-2, or comparator molecule. After treatment, the cells were fixed with formaldehyde to “pause” their signaling processes, then treated with cold methanol to remove their plasma membrane. Cells were then stained with fluorescent antibodies that recognize markers of cell identity. For example, T regulatory cells are CD4+CD25^{high}Foxp3+, IL-2 responsive non-T regulatory cells are
10 CD4+CD25^{high}Foxp3-, and NK cells are CD3-CD56+). The cells were also stained with an antibody (Cell Signaling Technology Cat #9365 and #14603) that binds to the transcription factor STAT5 phosphorylated at tyrosine 647 (pSTAT5). pSTAT5 is produced as a direct result of IL-2 signaling by receptors on the cell surface, making it a suitable marker for IL-2 signaling. Flow cytometry was used to measure markers of cell identity (**FIG. 8**), along with the level of pSTAT5. The concentration of
15 IL-2-Fc fusion protein that causes each cell population to reach 50% of its maximum signaling output (the EC₅₀) was determined, as well as the maximum signaling output that could be obtained. For analysis purposes, maximum signaling output is normalized to the maximum signaling obtained using IL-2-Fc protein containing only V69A/Q74P mutations in the IL-2.

FIGs. 9A, 9B, 9C, and 9D show the level pSTAT5 signaling in CD25+ Treg cells and
20 CD25+ non-Treg cells, NK cells, and CD8+ cytotoxic T cells, respectively, following incubation with a range of concentrations of the IL-2-Fc fusion proteins, as indicated. As expected, all the mutant IL-2-Fc molecules have reduced potency in activating signaling compared to the wild-type molecule containing only V69A/Q74P. They all show increased specificity for Tregs when compared to the wild-type molecule (in CD25^{high} T helper cells, NK cells, and the CD8+ cytotoxic T cells, the EC₅₀
25 shifts farther than in Tregs, the maximum activation decreases more than Tregs, and/or signaling in the non-T reg populations because unmeasurable). Further, the C-term N88D IL-2-Fc fusion protein shows lower induction of pSTAT5 signaling in Tregs than do all the IL-2-Fc fusion proteins tested (except for the negative control molecule). The C-term N88D has no detectable signaling on the non-T reg cell types so relative specificity could not be determined (**FIG. 8** and **Table 4**).

30 These results demonstrate that specific mutations that reduce CD122/CD132 receptor affinity (e.g., H16N, H16L, I92S, D84V, S87R) in a human IL-2 polypeptide comprising an IL-2-Fc fusion protein increase its ability to specifically activate T regulatory cells relative to CD25^{high} T helper cells and NK cells, measured by a combination of EC₅₀ and maximum activation, with different muteins displaying a variety of behaviors in each respect. Further, these data demonstrate that some IL-2-Fc
35 fusion proteins tested as described above have a greater ability to activate T regulatory cells than the comparator molecule C-term N88D molecule.

Table 4: Signaling potency (EC₅₀ and maximum activation) of IL-2-Fc fusion proteins on Tregs, CD25^{high} T helper cells and NK cells in human PBMCs

IL-2-Fc Fusion Protein	IL-2 Variant	Treg		CD25 ^{high} T helper		NK cells	
	SEQ ID NO	EC ₅₀ (nM)	Max. Signal	EC ₅₀ (nM)	Max. Signal	EC ₅₀ (nM)	Max. Signal
V69A/Q74P	2	0.001	1	0.007	1	2.6	1
H16N/V69A/Q74P	4	0.003	0.82	>50	~0.5	>50	N.D.
H16L/V69A/Q74P	5	0.238	1.22	0.827	0.29	N.D.	N.D.
I92S/V69A/Q74P	11	0.009	0.78	N.D.	N.D.	N.D.	N.D.
D84V/V69A/Q74P	7	0.013	1.20	N.D.	N.D.	N.D.	N.D.
S87R/V69A/Q74P	8	0.002	~1	~1	~1	10.2	0.83
Inactive IL-2	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
C-term N88D	NA	0.37	0.50	N.D.	N.D.	N.D.	N.D.

EC₅₀ and maximum pSTAT5 signal induced by the indicated IL-2-Fc fusion for each cell type after 30 minutes as measured in human PBMCs. Values are determined by curve fitting to data in **FIG. 8**. Values indicated with ~ are visual estimates due to poorly converged estimates from fitting. N.D. indicates that meaningful pSTAT5 was not detected.

Example 4: IL2-Fc Fusion Proteins with Moderate Affinity for CD25 Have Enhanced**5 Specificity for Tregs Compared to Other CD25^{high} T cells**

Previous work has developed IL-2 muteins with greatly reduced affinity for CD25 because such molecules may be useful in the context of treating cancer (Levin et al. Nature (2012) 484:529-533). Other work has aimed to increase the affinity for CD25 based on the hypothesis that this may increase activity toward Tregs relative to other cell types, which may be useful for treating diseases involving aberrant activity of the immune system. The ability of IL-2 mutations that moderately reduce affinity to CD25 to increase specific activation of Tregs has not been explored. We used data from yeast surface display experiments in Examples 1 and 2 to identify amino acid positions that are permissive to mutation, then compared those positions to residues that contact CD25 in a published structure of the IL-2/CD25 complex (Stauber et al. Proc Natl Acad Sci USA (2006) 103(8):2788-2793). In particular, IL-2 residues K35, R38, F42, and E68 make contact with the CD25 and permit mutations. Existing mutations have targeted R38, F42 and E68 to eliminate CD25 affinity (Carmenate et al. J Immunol (2013) 190(12):6230-6238, and a K35 mutation has been reported to improve IL-2 stability (Rojas et al. Scientific Reports (2019) 9:800).

A series of IL-2-Fc fusion proteins were generated containing mutations at these positions. Specifically, the indicated mutation(s) was introduced into the base sequence of IL-2 V69A/Q74P (SEQ ID NO: 2), fused at its C-terminus to a 20-amino acid linker comprising the sequence (G₄S)₄ (SEQ ID NO: 48) followed by IgG1 Fc fragment containing N297G mutation (SEQ ID NO: 40). Specific mutations tested were K35E, R38Q, R38N, R38E, F42Q, F42K, E68N and E68Q. IL-2 signaling activity of these exemplary IL-2-Fc fusion proteins in Tregs, CD25^{high} T helper cells and NK cells in human PBMCs was determined as in **Example 4**. The parent IL-2-Fc fusion protein (SEQ ID NO: 2) that does not contain a mutation known to affect IL-2 receptor affinity, was used as a

comparator. E68N and E68Q were indistinguishable from wild type in this assay and are not included below.

FIGs. 10A, 10B, and 10C show the level pSTAT5 signaling in Treg cells, CD25^{high} T helper cells, and NK cells, respectively, following incubation with a range of concentrations of the IL-2-Fc fusion proteins, as indicated. **Table 5** shows the EC₅₀ for Tregs vs CD25^{high} T helper cells, along with the specificity (calculated as the ratio of CD25^{high} T helper EC₅₀ divided by Treg EC₅₀). As expected, reducing the affinity for CD25 also reduced signaling in Tregs and CD25^{high} T helper cells, but had little or no impact on NK cells (which do not express CD25). In a result that was consistent with our hypothesis but unexpected given prior art, reducing affinity for CD25 also increased specificity for Tregs over the CD25^{high} T helper cells. This was especially pronounced for R38N and K35E mutations, but the effect occurs across all the mutein tested.

Table 5. Signaling potency and specificity toward T regulatory of IL-2-Fc fusion proteins with reduced affinity for CD25

IL-2-Fc Fusion Protein	IL-2 Variant SEQ ID NO	CD25 K _D (nM yeast display)	Treg EC ₅₀ (nM)	CD25 ^{high} T helper EC ₅₀ (nM)	Ratio
V69A/Q74P	2	0.27	0.001	0.0007	7.1
R38Q/V69A/Q74P	17	1.47	0.0025	0.0071	28.4
R38N/V69A/Q74P	22	1.82	0.0049	13.8	2822
R38E/V69A/Q74P	27	N.D.	1.717	15.5	9.0
F42Q/V69A/Q74P	29	N.D.	0.087	2.25	25.9
F42K/V69A/Q74P	28	N.D.	1.381	22.0	15.9
K35E/V69A/Q74P	12	0.78	0.002	0.60	300

IL-2 muteins at the interface with CD25 tested for binding to CD25 in a yeast display titration assay, and for signaling potency in human PBMCs by measuring pSTAT5 levels after 30 minutes in T regulatory cells (CD4+CD25^{high}Foxp3+) and CD25^{high} T helper cells (CD4+CD25^{high}Foxp3-). Signaling potency determined by fitting to the titrations shown in **FIG. 9**. N.D. – binding not detected

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These results demonstrate that specific mutations that reduce CD25 receptor affinity (*e.g.*, R38Q, R38N, R38E, F42Q, F42K, K35E) in a human IL-2 polypeptide comprising an IL-2-Fc fusion protein increases the ability to specifically activate T regulatory cells relative to other CD25^{high} T cells. Further, these results demonstrate that the amino acid residue selected for substitution at a certain position within the IL-2 polypeptide (*e.g.*, R38Q, R38N, R38E) comprising an IL-2-Fc fusion protein differentially affects the extent of T regulatory cell activation and selectivity. There is a window where reduced CD25 affinity leads to greatly increased selectivity for Tregs over other CD25^{high} T cells. In the assay presented here, that window begins at roughly 50% decrease in potency toward Tregs (2x baseline EC₅₀), with a maximum around 80% decreased potency (5x baseline EC₅₀). The additional selectivity decreases by the point of 87x decreased potency toward Tregs. Because selective activation of Tregs over other T cells is believed to be useful for therapeutic benefit in

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treating many immune disorders, mutations at these positions are likely to impart useful properties on a clinical molecule.

Example 5: IL-2-Fc Fusion Proteins with Mutations Affecting Binding to Both CD122/CD132 and CD25 Maintain Specificity for T Regulatory Cells over CD25^{high} T Cells and NK Cells

Because mutations affecting binding to CD122/CD132 dimer provide specificity for Tregs over NK cells and non-Treg T cells, and CD25 mutations independently provide specificity Tregs over CD25^{high} T helper cells, combination mutations may have novel combinations of specificity and potency that would be useful in an immune-modulatory therapeutic. We produced IL-2-Fc fusion proteins as in Examples 1, 3 and 4 and tested their ability to signal in pSTAT5 assays using human PBMCs as in Examples 3 and 4.

FIGs. 11A, 11B, and 11C show the level pSTAT5 signaling in Treg cells, CD25^{high} T helper cells, and NK cells, respectively, following incubation with a range of concentrations of indicated IL-2-Fc fusion proteins (muteins containing R38E are not shown because they have low potency on Tregs, see **Table 6**). All data shown here use PBMCs from a single human donor, but it is not the same donor as shown in earlier examples. Data are split between a top and bottom panel so that individual curves are visible. The control IL-2-Fc fusion containing only V69A/Q74P mutations is shown in every panel. Importantly, all combination muteins retain the ability to activate IL-2 signaling in Treg cells, with potency on Tregs spanning approximately 3 orders of magnitudes. Relative specificity against CD25^{high} T helper cells and NK cells could not be determined because most muteins did not generate enough pSTAT5 at any concentration to be assayed reliably. The fact that potency on Tregs is still easily detectable but pSTAT5 signaling on other cell types is barely detectable indicates that combinations of mutations targeting the interactions with CD122/CD132 and with CD25 largely retain their selectivity toward Tregs.

Table 6. Potency on Tregs (EC₅₀) of IL-2-Fc fusion proteins containing combinations of mutations targeting the interfaces with CD25 and CD122/CD132

IL-2-Fc Fusion Protein (all contain V69A/Q74P/C125S)	IL-2 Variant SEQ ID NO	Treg EC ₅₀ (nM)
None	2	0.039
K35E/H16N	13	0.022
K35E/I92S	16	0.93
K35E/R38N/H16N	38	9.8
R38N/H16N	23	0.18
R38N/D84V	25	0.76
R38N/S87R	31	0.017
R38N/I92S	26	3.2
R38Q/H16N	18	0.55
R38Q/I92S	21	1.0
R38E/H16N	32	49
R38E/D84V	33	65

R38E/S87R	34	39
R38E/I92S	35	207
F42Q/H16N	36	13
F42Q/I92S	37	37

Example 6: Flexible, Helical and Rigid Linkers Minimally Affect Function and Stability of IL-2-Fc Fusions

The functional properties of some fusion proteins, their expression levels and thermal stability have been shown to be improved with the incorporation of Pro-rich linkers and helical linkers that are more rigid than the (G₄S)_x (SEQ ID NO: 1029) flexible linker (Zhao et al., Protein Expr Purif (2008) 61: 73-77)).

To test if the rigidity and increased length of the linker can improve the thermal stability and signaling activity of the IL-2 muteins while still retaining their specificity for activating regulatory T cells, Fc fusion proteins containing stabilized IL-2 (V69A/Q74P mutein) and IL-2 containing a mutation that reduces affinity for CD122 (V69A/Q74P/H16N) with 8 different linkers (IL2-Li-Fc, **Table 7**) were designed and expressed. Linkers tested have one or more of several characteristics. Some linkers are Proline rich and incorporate N-glycosylation sites that add to the rigidity of the linker peptides. Other linkers tested are α -helical rigid linkers (Arai et al., Protein Eng (2001) 14(8): 529-532). Some of the other linkers are naturally occurring linkers found in multiple domain proteins and some are Proline rich artificially designed sequences.

Some of the IL-2-Li-Fc fusion proteins with the new linkers exhibit slightly improved thermal stability compared to the IL-2-(G₄S)₄-Fc linker (“(G₄S)₄” disclosed as SEQ ID NO: 48) in a Differential Scanning Fluorimetry (DSF) assay with the fluorescent protein-dye SYPRO orange (**Table 7**).

To evaluate the effect of different linkers on the biological activity of the IL-2-Li-Fc fusion protein, pSTAT5 signaling assay described in earlier examples was used. The pSTAT5 assay was used to assess the effect of linkers on the selectivity and activity of IL-2-Li-Fc fusion proteins in the context of a stabilized IL-2 (containing V69A/Q74P/C125S) and stabilized IL-2 including the H16N mutation that confers selectivity toward Tregs. Comparison of the EC₅₀s of IL-2-Li-Fc fusion proteins with different linkers shows that most linkers were similar to or slightly more active than IL-2-Fc fusions with (G₄S)₄ linker (SEQ ID NO: 48) (**Table 8**). Some linkers showed notably lower activity (v5 and v7 with H16N mutation).

Table 7. Amino acid sequence of linkers tested (Li) and melting temperature of the IL-2-Fc in wild-type (WT, contains V69A/Q74 mutations) and H16N formats (V69A/Q74P/H16N)

Description	Sequence	SEQ ID NO	T _m (WT)	T _m (H16N)
Linker v1	AGSGGSGGSGGSPVPSTPPTNSSSTPPTPSPS ASGS	49	48.8	49

Linker v2	AGSGGSGGSGGSPVPSTPPTPSPSTPPTSPS GGSGNSSGSGGS	50	48.5	49.5
Linker v3	AGSGNSSGSGGSGGSGNSSGSGGSPVPSTPP TSPSTPPTPSPSASGS	51	49.3	50.4
Linker v4	AEAAAKEAAAKEAAAKEAAAKAGS	52	48.4	48.8
Linker v5	GTPNPPASSSTTGSSTPTNPPAGS	53	48.2	49.3
Linker v6	AGSPGAGNGGNNGGNPPPTTTTSSAPATT TTASAGS	54	48.4	48.8
Linker v7	GGGSAGGGSAGGGSAGGGSAGS	55	47.9	45.5
(G ₄ S) ₄ (SEQ ID NO: 48)	GGGGSGGGSGGGSGGGGS	48	46.5	45.7

Table 8. Signaling potency determined by pSTAT5 signaling assay with human PBMCs for of IL-2-Fc proteins with various linkers on Tregs, CD25^{high} T helper cells and NK

IL-2 variant (linker)	Tregs CD4+CD25 ^{High} FoxP3+ EC50 (nM)	T Helper CD4+CD25 ^{High} FoxP3- EC50 (nM)	NK cells CD3-CD56+ EC50 (nM)
H16N (v1)	0.003	0.113	Not detected
H16N (v2)	0.003	0.090	Not detected
H16N (v3)	0.009	0.101	Not detected
H16N (v4)	0.005	0.243	13.5
H16N (v5)	0.052	2.6	Not detected
H16N (v6)	0.011	0.96	Not detected
H16N (v7)	0.026	2.68	Not detected
H16N (G₄S)₄ (SEQ ID NO: 48)	0.008	1.04	6.1
WT (v1)	0.003	0.008	2.6
WT (v2)	0.004	0.007	1.7
WT (v3)	0.007	0.016	2.0
WT (v4)	0.003	0.005	1.0
WT (v5)	0.022	0.101	7.6
WT (v6)	0.012	0.046	8.2
WT (v7)	0.014	0.068	10.4
WT (G₄S)₄ (SEQ ID NO: 48)	0.006	0.009	2.0

5 Example 7: IL-2-Fc Fusion Proteins with Reduced CD122 Receptor Affinity Specifically Expands T Regulatory Cells *In Vivo*

The ability of IL2-Fc fusion proteins with altered IL-2 receptor affinity to specifically activate T regulatory cells in mice was evaluated. Briefly, Tg32 mice (Jackson Labs, Bar Harbor ME, stock #014565) expressing human FcRn were injected once via tail vein injection once with a range of

doses (0.5 μ g to 15 μ g) of the H16N fusion protein comprising the 20aa GS linker (G₄S)₄ (SEQ ID NO: 48) fused to the N-terminus of IgG1 Fc with an N297G mutation. Control mice were treated with an equimolar amount (1 μ g to 30 μ g) of the C-term N88D fusion protein. Lymphocyte levels were determined by flow cytometry prior to dosing, then at 3, 5- and 7-days post-injection. To determine the *in vivo* effect(s) of the IL-2-Fc fusion proteins several key parameters were measured: T cells as a fraction of total lymphocytes, Foxp3⁺ Tregs as a fraction of T cells, CD4⁺ T helper cells (excluding Tregs) as a fraction of T cells, CD8⁺ T cells as a fraction of T cells, and natural killer (NK) cells as a fraction of total lymphocytes. Specifically, total lymphocytes were defined as viable CD45⁺ cells, T cells as viable CD45⁺CD3⁺, Tregs as viable CD45⁺CD3⁺CD4⁺CD25^{high}CD127⁻ cells, T helper as viable CD45⁺CD3⁺CD4⁺ not CD25^{high} and CD127⁻, CD8⁺ T cells as viable CD45⁺CD3⁺CD8⁺ cells, and NK cells as viable CD45⁺CD3⁻NK1.1⁺.

FIG. 12 shows T regs as a percentage of total T cells. Both molecules show a strong dose-dependent increase at 3 days, declining at later time-points. The response to IL-2-Fc H16N is more sustained in these mice, suggesting that this molecule exerts activity over a longer time. Data in **FIG. 12A** and **FIG. 12B** are plotted as an average of responses relative to baseline (pre-treatment values) for three mice for each dose at each time point, while **FIG. 12C** shows data for individual mice treated with the highest dose of each molecule. **FIG. 13** and **FIG. 14** show the percent of T cells that were T helper cells and CD8⁺ T cells respectively following treatment with each dose of IL-2-Fc fusion protein or of C-term N88D. There is a clear dose-dependent decrease after 3 days in T effectors as a fraction of the total, with the effect declining at later time-points. There is no meaningful difference between dose-matched response to the two molecules.

FIG. 15A and **FIG. 15B** show the NK cell response (NK cells/total lymphocytes) of mice treated with IL-2-Fc H16N and C-term N88D, respectively. Data are plotted as an average of NK cell percentage relative to baseline (pre-treatment values) for three mice for each dose at each time point. In mice treated with IL-2-Fc H16N, at day 3 the fraction of NK cells decreases slightly at low doses or increases slightly at high doses, in a dose-dependent manner. The effect declines at later time-points. In contrast, in mice treated with C-term N88D dose-dependent stimulation of NK cell expansion was observed to a much greater extent than in treatment with the IL-2-Fc H16N protein. NK cells as a fraction of total lymphocytes, relative to baseline, for individual mice treated with the highest dose of each molecule is shown in **FIG. 15C**.

Taken together, these results demonstrate that treatment of mice with IL-2-Fc H16N fusion protein induces a selective expansion of Foxp3⁺ T regulatory cells. In contrast to the comparator molecule, IL-2-Fc H16N induces expansion of T regs over a longer period of time and induces much less expansion of NK cells *in vivo*.

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Example 8: Reducing the IL-2 Receptor Binding Affinity of IL-2-Fc Fusion Proteins Extends Their Lifetime *In Vivo*

An important advantage of IL-2-Fc fusion proteins over existing therapy using IL-2 is expected to be extended lifetime *in vivo* (Bell et al. J Autoimmunity (2015) 56: 66-80). In the context of an Fc or antibody fusion protein, it is hypothesized that binding to the IL-2 receptors is a major route of clearance *in vivo*. We have tested this by treating Tg32 mice with an IL-2-Fc fusion protein that has reduced affinity for both CD25 and CD122 receptors (mutations F42A, Y45A, L72G, N88D, V69A, Q74P, C125S (SEQ ID NO: 30). **FIG. 16** shows binding data that demonstrates the reduced affinity for both CD25 and CD122 compared to IL-2-Fc containing only V69A/Q74P/C125S mutations, and IL-2-Fc Inactive does not cause pSTAT5 phosphorylation *in vitro* in human PBMCs at any concentration tested (**FIG. 9A**).

Plasma was collected from mice treated as in Example 7 with IL-2-Fc fusion proteins or C-term N88D. The amount of IL-2-Fc fusion protein or C-term N88D present at each time-point was measured using an ELISA assay with anti-IL-2 capture antibody (R&D Systems, AF-202) and anti-human Fc secondary antibody conjugated to horseradish peroxidase (Jackson ImmunoResearch 109-035-008). For analysis, 100% of starting material was defined as the amount detectable in blood plasma 1 hour after injection. Equimolar amounts of IL-2-Fc H16N and C-term N88D show essentially identical clearance kinetics at each dose level (**FIG. 17A** and **FIG. 17B**). In contrast, IL-2-Fc Inactive persists longer, especially at low doses (**FIG. 17C** and **FIG. 17D**).

This exemplary molecule demonstrates that lowering the affinity for IL-2 receptors could increase the lifetime of a therapeutic molecule *in vivo*. IL-2 mutations that reduce affinity for CD25 but retain activity on Tregs, such as those described in Example 4, could be used to extend the therapeutic lifetime of these IL-2-Fc fusion proteins, thereby extending the duration of clinical benefit and reducing the need for frequent dosing.

Example 9: IL-2-Fc Fusion Proteins Expand T Regulatory Cells, T Helper Cells, and NK Cells *In Vivo* in Humanized Mice

NOD scid gamma (NSG) mice were lethally irradiated and reconstituted with human CD34+ umbilical cord stem cells in order to investigate the response of human immune cells to the IL-2-Fc fusion proteins. Seven experimental groups, with six mice in each group, were reconstituted using CD34+ umbilical cord stem cells isolated from three different human donors. Each donor reconstituted two mice per experimental group. After engraftment had fully occurred, the mice were injected subcutaneously with a low and/or a high dose of a control monoclonal antibody (Motavizumab), a control IL-2 Fc fusion protein with an inactive IL-2 moiety, a control IL-2 Fc fusion protein with a wild-type IL-2 protein, and three different IL-2-Fc fusion proteins comprising different mutations within the IL-2 moiety. **Table 12** summarizes the doses and experimental treatment groups investigated. Following injection, blood was obtained from the mice at various

timepoints, as indicated in **FIG. 18A**, and flow cytometry was performed to measure the various lymphocyte populations at these timepoints (**FIG. 18A**). Fold-expansion of T regulatory cells, T helper cells and NK cells at up to day 9 following dosing was quantified by flow cytometry similarly to Example 7, and is shown in **FIG. 18B**, **FIG. 18C**, and **FIG. 18D**, respectively.

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Table 12: IL-2-Fc fusion proteins and control proteins and corresponding doses administered to the humanized mice reconstituted with human CD34+ umbilical cord stem cells

Experimental Group (6 mice per group)	Treatment	Low Dose (µg/kg)	High Dose (µg/kg)
1	Motavizumab	800 µg/kg (equimolar)	
2	Inactive IL-2	400 µg/kg	
3	N88D (C-term)	100 µg/kg (equimolar)	800 µg/kg (equimolar)
4	Wild-type IL-2	50 µg/kg	400 µg/kg
5	H16N, V69A, Q74P, C125S (SEQ ID NO: 1007)	50 µg/kg	400 µg/kg
6	H16L, V69A, Q74P, C125S (SEQ ID NO: 1008)	50 µg/kg	400 µg/kg

Example 10: IL-2-Fc Fusion Proteins Have Lifetime of Days in Circulation

10 Tg32 mice (Jackson Labs, Bar Harbor ME, stock #014565) were injected subcutaneously with 5 µg of an IL-2 fusion protein comprising a combination of mutations (**FIGs. 19A-19B**). All IL-2 fusion proteins investigated contained the V69A/Q74P/C125S mutations in combination with either the H16N, H16L, or I92S mutation (**FIG. 19A**). These correspond to SEQ ID NOs: 1007, 1008, and 1009, respectively. Additionally, the half-life of two IL-2 fusion proteins comprising the

15 H16N/V69A/Q74P/C125S mutations in the IL-2 moiety with or without an additional mutation in the Fc region were compared (**FIG. 19B**). These IL-2 fusion proteins correspond to SEQ ID NOs: 1007 and 135. Following injection with the exemplary IL-2 fusion proteins, blood was collected at the time points indicated in **FIGs. 19A-19B**. Plasma was isolated from the blood and the concentrations of the IL-2 fusion proteins were measured as described in Example 8.

20 As depicted in **FIG. 19A**, all IL-2 fusion proteins with the indicated mutations showed maximum distribution within the first 12 hours after injection. The I92S mutation led to the greatest amount of circulating IL-2 fusion protein in the plasma of the mice.

As shown in **FIG. 19B**, increasing the affinity of the Fc sequence for FcRn (SEQ ID NO: 135) modestly increased the lifetime of the IL-2 fusion protein, as compared to the IL-2 fusion protein comprising the same mutations in the IL-2 moiety but no additional mutation in the Fc sequence (SEQ ID NO: 1007).

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Example 11: IL-2-Fc Fusion Protein Selectively Expands T Regulatory Cells *In Vivo* in Cynomolgus Monkeys

The pharmacokinetic and pharmacodynamic profile of an exemplary IL-2-Fc fusion protein, *i.e.*, the IL-2-Fc fusion protein comprising the mutations H16L/V69A/Q74P/C125S (SEQ ID NO:1008) (IL2-118 fused to IgG1 Fc N297G allotype m3), and its effect on the expansion and proliferation of immune cells were investigated *in vivo* in cynomolgus monkeys. Monkeys were subcutaneously administered 100 µg/kg of the IL-2-Fc fusion protein or a placebo (phosphate-buffered saline) once weekly (day 1, 8, 15, and 22) for four weeks. The four weekly dosing was followed by a four-week recovery period.

The exemplary IL-2-Fc fusion protein was well tolerated in all monkeys, with no clinical signs or observations observed during the 4-week dosing or the 4-week recovery periods. With respect to the pharmacokinetics of the IL-2-Fc fusion protein, the data demonstrate a rapid initial absorption phase ($T_{max} < 24$ hours for all animals), followed by an elimination phase (half-life ($t_{1/2}$) was approximately 10 hours) (**FIG. 20**). Serum levels of the IL-2-Fc fusion protein in the monkeys over time is summarized in **FIG. 20**.

The effects of the exemplary IL-2-Fc fusion protein on immune cell expansion following administration in monkeys was also investigated. Flow cytometry was used for the quantification of circulating immune cell subsets following treatment with the IL-2-Fc fusion protein or the placebo control. **Table 13** lists the intracellular and cell surface markers and corresponding cell populations that were analyzed. As shown in **FIG. 21A**, the IL-2-Fc fusion protein significantly increased the amount of T regulatory cells in monkeys as compared to the placebo control. Further, as shown in **FIG. 21B**, up to 80% of the regulatory T cells stained positive for Ki67 (a marker for cell proliferation) in monkeys that received the IL-2-Fc fusion protein. Taken together, these data indicate that regulatory T cells were hyperproliferative and showed increased expansion in response to the IL-2-Fc fusion protein.

As shown in **FIGs. 22A-22D**, the IL-2-Fc fusion protein did not result in an increase in the expansion of NK cells (**FIG. 22A**), cytotoxic T cells (**FIG. 22B**), helper T cells (**FIG. 22C**), or total T cells (**FIG. 22D**).

In summary, these data indicate that IL2-118 fused to IgG1 Fc N297G allotype m3 was able to selectively expand regulatory T cells *in vivo*.

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Table 13: List of intracellular and cell surface markers and corresponding cellular populations for flow cytometric analysis of circulating immune cells

Immunophenotyping Antigens and Cell Populations	
Antigen Marker	Cell Population Identified
CD45+/CD3+/CD20-/CD159a-	Total T-lymphocytes
CD45+/CD3+/CD20-/CD159a-/CD4+/CD8-	T-helper lymphocytes
CD45+/CD3+/CD20-/CD159a-/CD4-/CD8+	T-cytotoxic lymphocytes
CD45+/CD3-/CD20-/CD159a+	CD159a+ Natural-killer cells
CD3+/CD159a-/CD4+/CD8-/CD25+/FoxP3+	Regulatory T-helper-lymphocytes
CD3+/CD159a-/CD4+/CD8-/CD25+/FoxP3+/Ki67+	Proliferating Regulatory T-helper-lymphocytes

Example 12: IL-2-Fc Fusion Protein Reduces Kidney Damage in a Mouse Model of Lupus

5 Nephritis

The MRL/MpJ-Faslpr/J strain of mice (Jackson Labs, Bar Harbor ME, stock #000485) are homozygous for mutation in the Fas gene, leading to systemic autoimmunity that resembles human systemic lupus erythematosus (SLE) with kidney involvement similar to human lupus nephritis. These mice were used to investigate the ability of IL-2-Fc fusion proteins to induce T regulatory cell expansion by measuring impact on disease progression in this model of SLE.

10 Groups of up to 30 mice were treated subcutaneously with PBS vehicle control, or an exemplary IL-2-Fc fusion protein described herein at 40 µg/kg, every 3 days. Treatment began at 11 weeks of age and continued until the end of the study when mice were 18 weeks old. Disease scoring included proteinuria as measured weekly in all mice, analysis of glomerular lesions by kidney
15 histology as measured at the end of the study, blood urea nitrogen (BUN) as measured at the end of the study, and quantitative measurement of antibodies in serum recognizing double stranded DNA (anti-dsDNA antibodies).

FIG. 23A shows average proteinuria in the two groups throughout the course of the study. Early in the study the treated group showed lower average proteinuria, with greatest statistical
20 significance when the mice were 12 weeks old ($p = 0.004$ using two-tailed unpaired t-test) and 13 weeks old ($p = 0.056$) (**FIG. 23B**, center and right panel).

Kidney histology was also performed at the end of the study to evaluate glomerular lesions, which are indicative of kidney damage. An analysis protocol was used with analysts blinded to the treatment groups. The average number of lesions identified in untreated mice was 6.72 while the
25 average in treated mice was 5.167 (**FIG. 23C**). This result was statistically significant with $p < 0.005$ (two-tailed unpaired t-test), indicating that the treated group had accumulated less kidney damage over the course of the study. No difference was observed in anti-dsDNA antibodies or BUN.

In summary, these data indicate that the exemplary IL-2-Fc fusion protein impacts disease progression in a murine model of lupus nephritis.

INCORPORATION BY REFERENCE

All publications, patents, and Accession numbers mentioned herein are hereby incorporated by reference in their entirety as if each individual publication or patent was specifically and individually indicated to be incorporated by reference.

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EQUIVALENTS

While specific embodiments of the subject invention have been discussed, the above specification is illustrative and not restrictive. Many variations of the invention will become apparent to those skilled in the art upon review of this specification and the claims below. The full scope of the invention should be determined by reference to the claims, along with their full scope of equivalents, and the specification, along with such variations.

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TABLE 9: SEQUENCE LISTING (AMINO ACID)

SEQ ID NO	Description	Substitutions	Sequence (amino acid)
Exemplary IL-2 Variants (Muteins)			
1	IL2 C125S	C125S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
2	Stabilized IL-2	V69A/Q74P /C125S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
3	IL2-037	H16D/V69A /Q74P/C125 S	APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
4	IL2-062	H16N/V69A /Q74P/C125 S	APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
5	IL2-118	H16L/V69A /Q74P/C125 S	APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
6	IL2-035	I28T/V69A/ Q74P/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
7	IL2-073	V69A/Q74P /D84V/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
8	IL2-077	V69A/Q74P /S87R/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
9	IL2-043	V69A/Q74P /N88L/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
10	IL2-036	V69A/Q74P /N88S/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
11	IL2-068	V69A/Q74P /I92S/C125S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
12	IL2-106	K35E/V69A /Q74P/C125 S	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFK FYMPKKATELKHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT

13	IL2-107	K35E/H16N /V69A/Q74 P/C125S	APTSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P E L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
14	IL2-119	K35E/H16L/ V69A/Q74P /C125S	APTSSSTKKTQLQLELLLLLDLQMI L N G I N N Y K N P E L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
15	K35E/D84V mutein	K35E/D84V /V69A/Q74 P/C125S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P E L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R V L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
16	IL2-115	K35E/I92S/ V69A/Q74P /C125S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P E L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V S V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
17	IL2-109	R38Q/V69A /Q74P/C125 S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P K L T Q M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
18	IL2-113	R38Q/H16N /V69A/Q74 P/C125S	APTSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P K L T Q M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
19	IL2-120	R38Q/H16L /V69A/Q74 P/C125S	APTSSSTKKTQLQLELLLLLDLQMI L N G I N N Y K N P K L T Q M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
20	R38Q/D84 V mutein	R38Q/D84V /V69A/Q74 P/C125S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P K L T Q M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R V L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
21	IL2-116	R38Q/I92S/ Q74P/C125 S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P K L T Q M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V S V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
22	IL2-088	R38N/V69A /Q74P/C125 S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
23	IL2-097	R38N/H16N /V69A/Q74 P/C125S	APTSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
24	R38N/H16L mutein	R38N/H16L /V69A/Q74 P/C125S	APTSSSTKKTQLQLELLLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
25	IL2-098	R38N/D84V /V69A/Q74 P/C125S	APTSSSTKKTQLQLEHLLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R V L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T

26	IL2-100	R38N/I92S/ Q74P/C125 S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V S V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
27	IL2-090	R38E/V69A /Q74P/C125 S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T E M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
28	IL2-092	F42K/V69A /Q74P/C125 S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T R M L T K K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
29	IL2-110	F42Q/V69A /Q74P/C125 S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T R M L T Q K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
30	IL2-Inactive	F42A/Y45A /L72G/N88 D/V69A/Q7 4P/C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T R M L T A K F A M P K K A T E L K H L Q C L E E E L K P L E E A L N G A P S K N F H L R P R D L I S D I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
31	IL2-99	R38N/S87R/ V69A/Q74P /C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I R N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
32	IL2-101	R38E/H16N /V69A/Q74 P/C125S	AP TSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P K L T E M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
33	IL2-102	R38E/D84V /V69A/Q74 P/C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T E M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R V L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
34	IL2-103	R38E/S87R/ V69A/Q74P /C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T E M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I R N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
35	IL2-104	R38E/I92S/ V69A/Q74P /C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T E M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V S V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
36	IL2-114	F42Q/H16N /V69A/Q74 P/C125S	AP TSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P K L T R M L T Q K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
37	IL2-117	F42Q/I92S/ V69A/Q74P /C125S	AP TSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T R M L T Q K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V S V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T
38	IL2-108	K35E/R38N /H16N/V69 A/Q74P/C12 5S	AP TSSSTKKTQLQLENLLLDLQMI L N G I N N Y K N P E L T N M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E A L N L A P S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F S Q S I I S T L T

1000	IL2-124	T3A/H16N/ V69A/Q74P /C125S	APASSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
1001	IL2-127	T3A/H16L/ V69A/Q74P /C125S	APASSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
1002	IL2-130	T3A/I92S/V 69A/Q74P/C 125S	APASSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLT
Exemplary Fc Regions			
39	IgG1 Fc		DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVSCSVMHE ALHNHYTQKSLSLSPGK
40	IgG1 Fc N297G	N297G	DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYGSTYRVVSVLTVLHQDWLNGKEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVSCSVMHE ALHNHYTQKSLSLSPGK
41	IgG1 Fc LALAPG	L234A/L235 A/P329G	DKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSN KALGAPIEKTISKAKGQPREPQVYTLPPSRDELTK NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVSCSVMHE ALHNHYTQKSLSLSPGK
42	IgG1 Fc N297G Mut215	N297G/T30 7Q/Q311V/ A378V	DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYGSTYRVVSVLQVLHVDWLNGLKEYKCKVSN KALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK NQVSLTCLVKGFYPSDIVVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVSCSVMHE ALHNHYTQKSLSLSPGK
43	IgG1 Fc LALAPG Mut215	L234A/L235 A/P329G/T3 07Q/Q311V/ A378V	DKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYNSTYRVVSVLQVLHVDWLNGLKEYKCKVSN KALGAPIEKTISKAKGQPREPQVYTLPPSRDELTK NQVSLTCLVKGFYPSDIVVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVSCSVMHE ALHNHYTQKSLSLSPGK

44	IgG4 Fc S228P	S228P	ESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQFNWYVDGVEVHNAK TKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKV SNKGLPSSIEKTI SKAKGQPREPQVYTLPPSQEEM TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV HEALHNHYTQKSLSLSLGK
45	IgG4 Fc S228P/R409 K	S228P/R409 K	ESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQFNWYVDGVEVHNAK TKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKV SNKGLPSSIEKTI SKAKGQPREPQVYTLPPSQEEM TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT TPPVLDSDGSFFLYSKLTVDKSRWQEGNVFSCSV HEALHNHYTQKSLSLSLGK
46	IgG4 Fc S228P Mut215	S228P/T307 Q/Q311V/A 378V	ESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQFNWYVDGVEVHNAK TKPREEQFNSTYRVVSVLQVLHVDWLNGLKEYKCKV SNKGLPSSIEKTI SKAKGQPREPQVYTLPPSQEEM TKNQVSLTCLVKGFYPSD I VVEWESNGQPENNYKT TPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV HEALHNHYTQKSLSLSLGK
47	IgG4 Fc S228P/R409 K Mut215	S228P/R409 K/T307Q/Q 311V/A378 V	ESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQFNWYVDGVEVHNAK TKPREEQFNSTYRVVSVLQVLHVDWLNGLKEYKCKV SNKGLPSSIEKTI SKAKGQPREPQVYTLPPSQEEM TKNQVSLTCLVKGFYPSD I VVEWESNGQPENNYKT TPPVLDSDGSFFLYSKLTVDKSRWQEGNVFSCSV HEALHNHYTQKSLSLSLGK
1003	IgG1 Fc N297G m3 allotype		DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMI SR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTK PREEQYGSTYRVVSVLTVLHQDWLNGKEYKCKVSN KALPAPIEKTI SKAKGQPREPQVYTLPPSREEMTK NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP PVLDSDGSFFLYSKLTVDKSRWQQGNVSCSV HEALHNHYTQKSLSLSPGK
Linkers			
48	(G4S)4 linker		GGGGSGGGSGGGSGGGSGGGGS
49	Linker v1		AGSGGSGGSGGSPVPSTPPTNSSSTPPTSPSPASG S
50	Linker v2		AGSGGSGGSGGSPVPSTPPTSPSPSTPPTSPSPGGS GNSSGSGGS
51	Linker v3		AGSGNSSGSGGSGGSGGNSSGSGGSPVPSTPPTSP STPPTSPSPASGS
52	Linker v4		AEEAAKEAAAKEAAAKEAAAKAGS
53	Linker v5		GTTPNPPASSSTTGSSTPTNPPAGS
54	Linker v6		AGSPGAGNGGNNGNPPPTTTTSSAPATTTTASAGS
55	Linker v7		GGGSAGGGSAGGGSAGGGSAGS
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc N297G)			

56	IL2 C125S fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
57	Stabilized IL-2 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
58	IL2-037 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
59	IL2-062 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
60	IL2-118 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>

61	IL2-035 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
62	IL2-073 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
63	IL2-077 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
64	IL2-043 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
65	IL2-036 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

66	IL2-068 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
67	IL2-106 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
68	IL2-107 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
69	IL2-119 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
70	K35E/D84V mutein fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

71	IL2-115 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
72	IL2-109 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
73	IL2-113 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
74	IL2-120 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
75	R38Q/D84V mutein fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

76	IL2-116 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
77	IL2-088 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
78	IL2-097 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
79	R38N/H16L mutein fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
80	IL2-098 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

81	IL2-100 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
82	IL2-090 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
83	IL2-092 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
84	IL2-110 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
85	IL2-Inactive fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLQCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

86	IL2-99 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
87	IL2-101 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
88	IL2-102 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
89	IL2-103 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
90	IL2-104 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

91	IL2-114 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
92	IL2-117 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
93	IL2-108 fused to IgG1 Fc N297G	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
1004	IL2-124 fused to IgG1 Fc N297G allotype m3	<p>APASSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
1005	IL2-127 fused to IgG1 Fc N297G allotype m3	<p>APASSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

1006	IL2-130 fused to IgG1 Fc N297G allotype m3	<p>APASSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
1007	IL2-062 fused to IgG1 Fc N297G allotype m3	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
1008	IL2-118 fused to IgG1 Fc N297G allotype m3	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
1009	IL2-068 fused to IgG1 Fc N297G allotype m3	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
IL-2-Fc Fusion Proteins (IgG1 Fc LALAPG)		

94	IL2 C125S fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
95	Stabilized IL-2 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
96	IL2-037 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
97	IL2-062 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
98	IL2-118 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

99	IL2-035 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
100	IL2-073 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
101	IL2-077 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
102	IL2-043 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
103	IL2-036 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

104	IL2-068 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
105	IL2-106 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
106	IL2-107 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
107	IL2-119 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
108	K35E/D84V mutein fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

109	IL2-115 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
110	IL2-109 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
111	IL2-113 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
112	IL2-120 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
113	R38Q/D84V mutein fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

114	IL2-116 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>
115	IL2-088 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>
116	IL2-097 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>
117	R38N/H16L mutein fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>
118	IL2-098 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>

119	IL2-100 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
120	IL2-090 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
121	IL2-092 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
122	IL2-110 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
123	IL2-Inactive fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLQCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>

124	IL2-99 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
125	IL2-101 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
126	IL2-102 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
127	IL2-103 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
128	IL2-104 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

129	IL2-114 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
130	IL2-117 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
131	IL2-108 fused to IgG1 Fc LALAPG	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQD WLNQKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc N297G Mut215)		
132	IL2 C125S fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNQKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

133	Stabilized IL-2 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
134	IL2-037 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
135	IL2-062 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
136	IL2-118 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
137	IL2-035 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCP PCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

138	IL2-073 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
139	IL2-077 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
140	IL2-043 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
141	IL2-036 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
142	IL2-068 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

143	IL2-106 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
144	IL2-107 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
145	IL2-119 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
146	K35E/D84V mutein fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
147	IL2-115 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

148	IL2-109 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
149	IL2-113 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
150	IL2-120 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
151	R38Q/D84V mutein fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
152	IL2-116 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

153	IL2-088 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
154	IL2-097 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
155	R38N/H16L mutein fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
156	IL2-098 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
157	IL2-100 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTHTCPPCPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTISKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>

158	IL2-090 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQY GSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
159	IL2-092 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQY GSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
160	IL2-110 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQY GSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
161	IL2-Inactive fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATEL KHLQC LEEELKPLEEAL NGAPSKNFHLRPRDLISDINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQY GSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
162	IL2-99 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PPAPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQY GSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>

163	IL2-101 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
164	IL2-102 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
165	IL2-103 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
166	IL2-104 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>
167	IL2-114 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPAPPELLGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFCSCVMHEALHNHYTQKSLSLSPGK</p>

168	IL2-117 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPELPGPAPPELLGGPSVFL FPPKPKDITLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
169	IL2-108 fused to IgG1 Fc N297G Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPELPGPAPPELLGGPSVFL FPPKPKDITLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYGSTYRVVSVLQVLHVD WLNKKEYKCKVSNKALPAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc LALAPG Mut215)		
170	IL2 C125S fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAAGGPPAPPELLGGPSVFL FPPKPKDITLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
171	Stabilized IL-2 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAAGGPPAPPELLGGPSVFL FPPKPKDITLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

172	IL2-037 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
173	IL2-062 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
174	IL2-118 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
175	IL2-035 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
176	IL2-073 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

177	IL2-077 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
178	IL2-043 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
179	IL2-036 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
180	IL2-068 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
181	IL2-106 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

182	IL2-107 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
183	IL2-119 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLELLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
184	K35E/D84V mutein fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
185	IL2-115 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
186	IL2-109 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

187	IL2-113 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
188	IL2-120 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
189	R38Q/D84V mutein fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
190	IL2-116 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>
191	IL2-088 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKHTCPPCPAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAPIEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNV FSC SVMHEALHNHYTQKSLSLSPGK</p>

192	IL2-097 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFK F YMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
193	R38N/H16L mutein fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTNMLTFK F YMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
194	IL2-098 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK F YMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
195	IL2-100 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFK F YMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
196	IL2-090 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFK F YMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

197	IL2-092 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
198	IL2-110 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
199	IL2-Inactive fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
200	IL2-99 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>
201	IL2-101 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK</p>

202	IL2-102 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSI ISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
203	IL2-103 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSI ISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
204	IL2-104 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSI ISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
205	IL2-114 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSI ISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>
206	IL2-117 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSI ISTLTGGGGSGG GSGGGGGSGGGSDKTHTCPPEAPEAAGGPSVFL FPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKEYKCKVSNKALGAP IEKTI SKAKGQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRW QQGNVFC SVMHEALHNHYTQKSLSLSPGK</p>

207	IL2-108 fused to IgG1 Fc LALAPG Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSDKTHTCP PCPAPEAAGGPSVFL FPPKPKD TLMISRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLQVLHVD WLNKKEYKCKVSNKALGAP IEKTI SKAKQPREPQ VYTLPPSRDELTKNQVSLTCLVKGFYPSDIVVEWE SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRW QQGNVFSC SVMHEALHNHYTQKSLSLSPGK</p>
Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P)		
208	IL2 C125S fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEVL NLAQSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSES KYGPPCPPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNKKEYKCKVSNKGLPSSIEKTI SKAKQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSLSLGGK</p>
209	Stabilized IL-2 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSES KYGPPCPPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNKKEYKCKVSNKGLPSSIEKTI SKAKQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSLSLGGK</p>
210	IL2-037 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQC LEEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSES KYGPPCPPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNKKEYKCKVSNKGLPSSIEKTI SKAKQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSLSLGGK</p>

211	IL2-062 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSL SLGK</p>
212	IL2-118 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSL SLGK</p>
213	IL2-035 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSL SLGK</p>
214	IL2-073 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSL SLGK</p>
215	IL2-077 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSL SLGK</p>

216	IL2-043 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
217	IL2-036 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
218	IL2-068 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
219	IL2-106 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
220	IL2-107 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>

221	IL2-119 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
222	K35E/D84V mutein fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
223	IL2-115 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
224	IL2-109 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
225	IL2-113 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>

226	IL2-120 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
227	R38Q/D84V mutein fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
228	IL2-116 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
229	IL2-088 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
230	IL2-097 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>

231	R38N/H16L mutein fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLELLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
232	IL2-098 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
233	IL2-100 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
234	IL2-090 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
235	IL2-092 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>

236	IL2-110 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
237	IL2-Inactive fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
238	IL2-99 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
239	IL2-101 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
240	IL2-102 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>

241	IL2-103 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
242	IL2-104 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
243	IL2-114 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
244	IL2-117 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
245	IL2-108 fused to IgG4 Fc S228P	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNM LTFKFYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>

Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P/R409K)		
246	IL2 C125S fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGGGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSL SLGK</p>
247	Stabilized IL-2 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGGGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSL SLGK</p>
248	IL2-037 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGGGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSL SLGK</p>
249	IL2-062 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFK FYMPKKATEL KHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGGGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSC SVMHEALHNHYTQKSLSL SLGK</p>

250	IL2-118 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
251	IL2-035 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
252	IL2-073 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
253	IL2-077 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>
254	IL2-043 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK</p>

255	IL2-036 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
256	IL2-068 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
257	IL2-106 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
258	IL2-107 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
259	IL2-119 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>

260	K35E/D84V mutein fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
261	IL2-115 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
262	IL2-109 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
263	IL2-113 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
264	IL2-120 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>

265	R38Q/D84V mutein fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
266	IL2-116 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
267	IL2-088 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
268	IL2-097 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
269	R38N/H16L mutein fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

270	IL2-098 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
271	IL2-100 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
272	IL2-090 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
273	IL2-092 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>
274	IL2-110 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGLK</p>

275	IL2-Inactive fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLGLGK</p>
276	IL2-99 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLGLGK</p>
277	IL2-101 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLGLGK</p>
278	IL2-102 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLGLGK</p>
279	IL2-103 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLGLGK</p>

280	IL2-104 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
281	IL2-114 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
282	IL2-117 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
283	IL2-108 fused to IgG4 Fc S228P/R409K	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKD TLMISRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
<p>Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P Mut215)</p>		

284	IL2 C125S fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
285	Stabilized IL-2 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
286	IL2-037 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
287	IL2-062 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
288	IL2-118 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>

289	IL2-035 fused to IgG4 Fc S228P Mut215	<p> APTSSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK </p>
290	IL2-073 fused to IgG4 Fc S228P Mut215	<p> APTSSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK </p>
291	IL2-077 fused to IgG4 Fc S228P Mut215	<p> APTSSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK </p>
292	IL2-043 fused to IgG4 Fc S228P Mut215	<p> APTSSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK </p>
293	IL2-036 fused to IgG4 Fc S228P Mut215	<p> APTSSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGLK </p>

294	IL2-068 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK</p>
295	IL2-106 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK</p>
296	IL2-107 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK</p>
297	IL2-119 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK</p>
298	K35E/D84V mutein fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK</p>

<p>299</p>	<p>IL2-115 fused to IgG4 Fc S228P Mut215</p>	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
<p>300</p>	<p>IL2-109 fused to IgG4 Fc S228P Mut215</p>	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
<p>301</p>	<p>IL2-113 fused to IgG4 Fc S228P Mut215</p>	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
<p>302</p>	<p>IL2-120 fused to IgG4 Fc S228P Mut215</p>	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>
<p>303</p>	<p>R38Q/D84V mutein fused to IgG4 Fc S228P Mut215</p>	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLKG</p>

304	IL2-116 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
305	IL2-088 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
306	IL2-097 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
307	R38N/H16L mutein fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
308	IL2-098 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>

309	IL2-100 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
310	IL2-090 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
311	IL2-092 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
312	IL2-110 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
313	IL2-Inactive fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>

314	IL2-99 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
315	IL2-101 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
316	IL2-102 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
317	IL2-103 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
318	IL2-104 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEM LTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

319	IL2-114 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
320	IL2-117 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
321	IL2-108 fused to IgG4 Fc S228P Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P/R409K Mut215)		
322	IL2 C125S fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

323	Stabilized IL-2 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
324	IL2-037 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEDLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
325	IL2-062 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
326	IL2-118 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLELLLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
327	IL2-035 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGTNNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

328	IL2-073 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
329	IL2-077 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
330	IL2-043 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISLINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
331	IL2-036 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISSINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
332	IL2-068 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVS VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>

333	IL2-106 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
334	IL2-107 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
335	IL2-119 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
336	K35E/D84V mutein fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>
337	IL2-115 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPE LTRMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLKG</p>

338	IL2-109 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLGLGK</p>
339	IL2-113 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLGLGK</p>
340	IL2-120 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLGLGK</p>
341	R38Q/D84V mutein fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLGLGK</p>
342	IL2-116 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTQMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLGLGK</p>

343	IL2-088 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
344	IL2-097 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
345	R38N/H16L mutein fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLELLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
346	IL2-098 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
347	IL2-100 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

348	IL2-090 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
349	IL2-092 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTKKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
350	IL2-110 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
351	IL2-Inactive fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTAKFAMPKKATELKHLQCLEELKPLEEAL NGAPSKNFHLRPRDLISDINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>
352	IL2-99 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTNMLTFKFYMPKKATELKHLQCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVI VLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GGSGGGGGSGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNKKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSV MHEALHNHYTQKSLSLSLGK</p>

353	IL2-101 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
354	IL2-102 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRVLI SNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
355	IL2-103 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLIRNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
356	IL2-104 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTEMLTFKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVSIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>
357	IL2-114 fused to IgG4 Fc S228P/R409K Mut215	<p>APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLCLEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGGSESKYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSDQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMEALHNHYTQKSLSLSLGK</p>

358	IL2-117 fused to IgG4 Fc S228P/R409K Mut215	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTQKFYMPKKATELKHLQCLEEELKPLEEAL NLAPSKNFHLRPRDLISNINVSVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK
359	IL2-108 fused to IgG4 Fc S228P/R409K Mut215	APTSSTKKTQLQLENLLLDLQMI LINGINNYKNPE LTNMLTFKFYMPKKATELKHLQCLEEELKPLEEAL NLAPSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFSQSIISTLTGGGGSGG GSGGGGGSGGGSESKEYGPPCPPCPAPEFLGGPSV FLFPPKPKDTLMI SRTPEVTCVVVDVSQEDPEVQF NWYVDGVEVHNAKTKPREEQFNSTYRVVSVLQVLH VDWLNGKEYKCKVSNKGLPSSIEKTI SKAKGQPRE PQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIVVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS RWQEGNVFSCSVMHEALHNHYTQKSLSLSLGK
360	Wild type (WT) Human IL-2 (Uniprot P60568); signal peptide underlined	<u>MYRQQLLS</u> CIALSLALVTNSAPTSSSTKKTQLQLE HLLLDLQMI LINGINNYKNPKLTRMLTFKFYMPKKA TELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDL ISNINVIVLELKGSETTFMCEYADETATIVEFLNR WITFCQSIISTLT
1031	Wild type (WT) Human IL-2 (Uniprot P60568); signal peptide not included	APTSSTKKTQLQLEHLLLDLQMI LINGINNYKNPK LTRMLTFKFYMPKKATELKHLQCLEEELKPLEEVL NLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFCQSIISTLT

TABLE 10: SEQUENCE LISTING (NUCLEOTIDE)

SEQ ID NO	Description	Substitutions	Sequence (nucleotide)
Exemplary IL-2 Variants (Muteins)			
361	IL2 C125S	C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
362	Stabilized IL-2	V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
363	IL2-037	H16D/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
364	IL2-062	H16N/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
365	IL2-118	H16L/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
366	IL2-035	I28T/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
367	IL2-073	V69A/Q74P/ D84V/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
368	IL2-077	V69A/Q74P/ S87R/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAACGTAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
369	IL2-043	V69A/Q74P/ N88L/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
370	IL2-036	V69A/Q74P/ N88S/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
371	IL2-068	V69A/Q74P/ I92S/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
372	IL2-106	K35E/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
373	IL2-107	K35E/H16N/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
374	IL2-119	K35E/H16L/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
375	K35E/D84 V mutein	K35E/D84V/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
376	IL2-115	K35E/I92S/V 69A/Q74P/C 125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
377	IL2-109	R38Q/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
378	IL2-113	R38Q/H16N/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
379	IL2-120	R38Q/H16L/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
380	R38Q/D84 V mutein	R38Q/D84V/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
381	IL2-116	R38Q/I92S/Q 74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
382	IL2-088	R38N/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
383	IL2-097	R38N/H16N/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
384	R38N/H16 L mutein	R38N/H16L/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
385	IL2-098	R38N/D84V/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
386	IL2-100	R38N/I92S/Q 74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
387	IL2-090	R38E/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
388	IL2-092	F42K/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
389	IL2-110	F42Q/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
390	IL2- Inactive	F42A/Y45A/ L72G/N88D/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATGGTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
391	IL2-99	R38N/S87R/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
392	IL2-101	R38E/H16N/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
393	IL2-102	R38E/D84V/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
394	IL2-103	R38E/S87R/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
395	IL2-104	R38E/I92S/V 69A/Q74P/C 125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
396	IL2-114	F42Q/H16N/ V69A/Q74P/ C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAAGTCAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
397	IL2-117	F42Q/I92S/V 69A/Q74P/C 125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG

			AGCGTCTTGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
398	IL2-108	K35E/R38N/ H16N/V69A/ Q74P/C125S	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
1010	IL2-124	T3A/H16N/ V69A/Q74P/ C125S	GCCCTGCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
1011	IL2-127	T3A/H16L/ V69A/Q74P/ I92S/C125S	GCCCTGCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
1012	IL2-130	T3A/V69A/Q 74P/C125S	GCCCTGCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT
Exemplary Fc Regions			

399	IgG1 Fc		<p>GATAAAACTCATACTGCCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
400	IgG1 Fc N297G	N297G	<p>GATAAAACTCATACTGCCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
401	IgG1 Fc LALAPG	L234A/L235 A/P329G	<p>GATAAAACTCATACTGCCCCACCCTGCCCCGCACCGGAG GCAGCAGGGGGTCCCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGCACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

402	IgG1 Fc N297G Mut215	N297G/T307 Q/Q311V/A3 78V	GATAAAACTCATACTGCCCCACCCTGCCCGCACCCGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA
403	IgG1 Fc LALAPG Mut215	L234A/L235 A/P329G/T3 07Q/Q311V/ A378V	GATAAAACTCATACTGCCCCACCCTGCCCGCACCCGAG GCAGCAGGTGGTCCCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA
404	IgG4 Fc S228P	S228P	GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTCGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTCAGTCCCTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA

405	IgG4 Fc S228P/R40 9K	S228P/R409 K	GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
406	IgG4 Fc S228P Mut215	S228P/T307 Q/Q311V/A3 78V	GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCCTTACAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
407	IgG4 Fc S228P/R40 9K Mut215	S228P/R409 K/T307Q/Q3 11V/A378V	GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCCTTACAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA

1013	IgG1 Fc N297G m3 allotype	N297G	GATAAAACTCATACTGCCCCACCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA
Exemplary Linkers			
408	(G4S)4 linker (SEQ ID NO: 48)		GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC
409	Linker v1		GCGGGCTCAGGCGGCTCAGGCGGAAGCGGCGGGTCTCCA GTGCCCTCAACCCCTCCCACCAATTCAAGTCCACCCCA CCGACACCATCACCGTCAGCCTCTGGAAGC
410	Linker v2		GCAGGAAGTGGCGGATCCGGCGGTTCTGGTGGTTCTCCT GTGCCCTTCTACTCCTCCAACCTCCCAGTCCGAGTACCCCA CCCCTCCGTCACCTTCCGGTGGTAGCGGTAATTCTAGT GGCAGTGGCGGATCA
411	Linker v3		GCAGGCTCTGGGAATTCATCCGGCTCTGGTGGAAAGTGGC GGGTCAAGTAATTCAAGCGGGTCTGGCGGTAGCCCTGTG CCATCCACACCGCCAACCTCCATCTCCCTCTACTCCTCCA ACGCCAAGCCCTCAGCATCCGGATCT
412	Linker v4		GCGGAAGCGGCGGCTAAAGAGGCAGCCGCTAAGGAAGCA GCCGCTAAGGAAGCGGCAGCGAAGGCTGGTAGC
413	Linker v5		GGCACCACCCCAAATCCCCCGGCCAGTAGCTCCACCACA GGCTCATCCACCCCAACGAACCCCCCGGCAGGTTCA
414	Linker v6		GCTGGGTACCTGGTGTGGCAACGGTGGTAACAACGGT GGTAATCCTCCTCCCCGACTACCACGACTAGCAGCGCC CCGGCTACGACCACTACGGCGTCCGCAGGGTCA
415	Linker v7		GGCGGCGGTAGTGCCGGAGGGGGATCTGCCGGCGGTGGA TCAGCGGGTGGCGGCTCTGCGGGAAGC
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc N297G)			

416	IL2 C125S fused to IgG1 Fc N297G	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA
417	Stabilized IL-2 fused to IgG1 Fc N297G	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>418</p>	<p>IL2-037 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>419</p>	<p>IL2-062 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>420</p>	<p>IL2-118 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>421</p>	<p>IL2-035 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>422</p>	<p>IL2-073 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>423</p>	<p>IL2-077 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAACGTAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>424</p>	<p>IL2-043 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>425</p>	<p>IL2-036 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>426</p>	<p>IL2-068 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>427</p>	<p>IL2-106 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>428</p>	<p>IL2-107 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>429</p>	<p>IL2-119 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>430</p>	<p>K35E/D84V mutein fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>431</p>	<p>IL2-115 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>432</p>	<p>IL2-109 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>433</p>	<p>IL2-113 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>434</p>	<p>IL2-120 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>435</p>	<p>R38Q/D84V mutein fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTGGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>436</p>	<p>IL2-116 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTLAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>437</p>	<p>IL2-088 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>438</p>	<p>IL2-097 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>439</p>	<p>R38N/H16L mutein fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>440</p>	<p>IL2-098 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>441</p>	<p>IL2-100 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>442</p>	<p>IL2-090 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTGGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>443</p>	<p>IL2-092 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>444</p>	<p>IL2-110 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>445</p>	<p>IL2-Inactive fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>446</p>	<p>IL2-99 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>447</p>	<p>IL2-101 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>448</p>	<p>IL2-102 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>449</p>	<p>IL2-103 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>450</p>	<p>IL2-104 fused to IgG1 Fc N297G</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTT TAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>451</p>	<p>IL2-114 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>452</p>	<p>IL2-117 fused to IgG1 Fc N297G</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>453</p>	<p>IL2-108 fused to IgG1 Fc N297G</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>1014</p>	<p>IL2-124 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCTGCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTGGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG</p>

		<p>GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>1015</p>	<p>IL2-127 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCTGCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>1016</p>	<p>IL2-130 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCCGTCATCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>1017</p>	<p>IL2-062 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAAGCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTGGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG</p>

		<p>TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>1018</p>	<p>IL2-118 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTTCGTAGTGGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGTCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAAGTATCG AATAAGGCACCTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>1019</p>	<p>IL2-068 fused to IgG1 Fc N297G allotype m3</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACT GGTGGTGGAGGATCGGGAGGTGGAGGATCTGGAGGAGGA GGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTTCGTAGTGGACGTGTGCGATGAGGACCCGGAG</p>

		<p>GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGAAGAGATGACGAAAAACAGGTG TCGCTCACTGTTTTGGTGAAGGGTTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc LALAPG)</p>		
<p>454</p>	<p>IL2 C125S fused to IgG1 Fc LALAPG</p>	<p>GCCCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACAGGTG TCGCTCACTGTTTTGGTGAAGGGTTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>

<p>455</p>	<p>Stabilized IL-2 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>456</p>	<p>IL2-037 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>457</p>	<p>IL2-062 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>458</p>	<p>IL2-118 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>459</p>	<p>IL2-035 fused to IgG1 Fc LALAPG</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>460</p>	<p>IL2-073 fused to IgG1 Fc LALAPG</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>461</p>	<p>IL2-077 fused to IgG1 Fc LALAPG</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTT TAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>462</p>	<p>IL2-043 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>463</p>	<p>IL2-036 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>464</p>	<p>IL2-068 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>465</p>	<p>IL2-106 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>466</p>	<p>IL2-107 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>467</p>	<p>IL2-119 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>468</p>	<p>K35E/D84V mutein fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>469</p>	<p>IL2-115 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>470</p>	<p>IL2-109 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTTCACCCGGGAAA</p>
<p>471</p>	<p>IL2-113 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTTCACCCGGGAAA</p>
<p>472</p>	<p>IL2-120 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>473</p>	<p>R38Q/D84V mutein fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>474</p>	<p>IL2-116 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>475</p>	<p>IL2-088 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>476</p>	<p>IL2-097 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>477</p>	<p>R38N/H16L mutein fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>478</p>	<p>IL2-098 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>479</p>	<p>IL2-100 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>480</p>	<p>IL2-090 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>481</p>	<p>IL2-092 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>482</p>	<p>IL2-110 fused to IgG1 Fc LALAPG</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>483</p>	<p>IL2-Inactive fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>484</p>	<p>IL2-99 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>485</p>	<p>IL2-101 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>486</p>	<p>IL2-102 fused to IgG1 Fc LALAPG</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>487</p>	<p>IL2-103 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>488</p>	<p>IL2-104 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>489</p>	<p>IL2-114 fused to IgG1 Fc LALAPG</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGGGGTCCCTCCGTATTCTTGTTCCGCGCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>490</p>	<p>IL2-117 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>491</p>	<p>IL2-108 fused to IgG1 Fc LALAPG</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG GCAGCAGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGACTGTGCTGCACCAG GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGCGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc N297G Mut215)		
492	IL2 C125S fused to IgG1 Fc N297G Mut215	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAAGCAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGTGGATTGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA
493	Stabilized IL-2 fused to IgG1 Fc N297G Mut215	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCGAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAAGCAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGTGCACGTT

		<p>GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>494</p>	<p>IL2-037 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAACTCATACTGCTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>495</p>	<p>IL2-062 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAACTCATACTGCTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCCAAG</p>

		<p>CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>496</p>	<p>IL2-118 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGACTTAAACCA CTTGAGGAAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCTTCCGTATTCTTGTFTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>497</p>	<p>IL2-035 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>498</p>	<p>IL2-073 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>499</p>	<p>IL2-077 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>500</p>	<p>IL2-043 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>501</p>	<p>IL2-036 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>502</p>	<p>IL2-068 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>503</p>	<p>IL2-106 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>504</p>	<p>IL2-107 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>505</p>	<p>IL2-119 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>506</p>	<p>K35E/D84V mutein fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>507</p>	<p>IL2-115 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>508</p>	<p>IL2-109 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>509</p>	<p>IL2-113 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>510</p>	<p>IL2-120 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>511</p>	<p>R38Q/D84V mutein fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>512</p>	<p>IL2-116 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>513</p>	<p>IL2-088 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>514</p>	<p>IL2-097 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>515</p>	<p>R38N/H16L mutein fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>516</p>	<p>IL2-098 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>517</p>	<p>IL2-100 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>518</p>	<p>IL2-090 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>519</p>	<p>IL2-092 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>520</p>	<p>IL2-110 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>521</p>	<p>IL2-Inactive fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>522</p>	<p>IL2-99 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAAGCAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>523</p>	<p>IL2-101 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>524</p>	<p>IL2-102 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGTCCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACGGTTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>525</p>	<p>IL2-103 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>526</p>	<p>IL2-104 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>527</p>	<p>IL2-114 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>528</p>	<p>IL2-117 fused to IgG1 Fc N297G Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG CTGCTTGGGGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
529	IL2-108 fused to IgG1 Fc N297G Mut215	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCTCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG CTGCTTGGGGTCTTCCGTATTCTTGTTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACGGTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTCCCGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
Exemplary IL-2-Fc Fusion Proteins (IgG1 Fc LALAPG Mut215)		
530	IL2 C125S fused to IgG1 Fc LALAPG Mut215	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAACTCATACTGCTGCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTTCCGCCGAAG</p>

		<p>CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>531</p>	<p>Stabilized IL-2 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTFTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

532	IL2-037 fused to IgG1 Fc LALAPG Mut215	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA
533	IL2-062 fused to IgG1 Fc LALAPG Mut215	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACC GGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>534</p>	<p>IL2-118 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>535</p>	<p>IL2-035 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>536</p>	<p>IL2-073 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGGTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>537</p>	<p>IL2-077 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>538</p>	<p>IL2-043 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>539</p>	<p>IL2-036 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>540</p>	<p>IL2-068 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>541</p>	<p>IL2-106 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>542</p>	<p>IL2-107 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>543</p>	<p>IL2-119 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>544</p>	<p>K35E/D84V mutein fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>545</p>	<p>IL2-115 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>546</p>	<p>IL2-109 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>547</p>	<p>IL2-113 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>548</p>	<p>IL2-120 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>549</p>	<p>R38Q/D84V mutein fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>550</p>	<p>IL2-116 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGGTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>551</p>	<p>IL2-088 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>552</p>	<p>IL2-097 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCCGCGGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTTCGGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>553</p>	<p>R38N/H16L mutein fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTACCCGGGAAA</p>
<p>554</p>	<p>IL2-098 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>555</p>	<p>IL2-100 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>556</p>	<p>IL2-090 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>557</p>	<p>IL2-092 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>558</p>	<p>IL2-110 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACGTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>559</p>	<p>IL2-Inactive fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTLAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCCCTTCCGTATTCTTGTTCGCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGCAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>560</p>	<p>IL2-99 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCACCCTGGGAAA</p>
<p>561</p>	<p>IL2-101 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC</p>

		<p>AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>562</p>	<p>IL2-102 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>563</p>	<p>IL2-103 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAGGAGTATAAGTGTAAGTATCG</p>

		<p>AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>564</p>	<p>IL2-104 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCGTCGTAGTCGACGTGTGCGATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>565</p>	<p>IL2-114 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCTGCCACCCTGCCCCGCACCCGGAG GCAGCAGGTGGTCTTCCGTATTCTTGTTCGCGCCAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG</p>

		<p>ACGTGCGTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>
<p>566</p>	<p>IL2-117 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCTACGTCCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCTGGAAC TGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCACCCTGCCCGCACCCGGAG GCAGCAGGTGGTCCCTTCCGTATTCTTGTTCCGCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTGCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGCGAAGAACAGTACAATTTCG ACATACAGAGTAGTGAGCGTCTTGAGGTGCTGCACGTT GACTGGCTCAACGGAAAGGAGTATAAGTGTAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTTTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGATGGG AGCTTTTTCTTGACTCAAAGTTGACCGTGGATAAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTCTCACCCGGGAAA</p>

<p>567</p>	<p>IL2-108 fused to IgG1 Fc LALAPG Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCACAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GATAAAACTCATACTGCCCCACCCTGCCCCGACCCGGAG GCAGCAGGTGGTCCTTCCGTATTCTTGTTCGCCGAAG CCGAAGGACACGCTTATGATTAGCAGGACTCCCGAAGTG ACGTGCCTCGTAGTCGACGTGTCGCATGAGGACCCGGAG GTCAAGTTCAACTGGTATGTCGATGGCGTAGAAGTACAC AATGCAAAGACTAAACCCCGGAAGAACAGTACAATTCG ACATACAGAGTAGTGAGCGTCTTGCAAGTGTGCACGTT GACTGGCTCAACGAAAGGAGTATAAGTGTAAAGTATCG AATAAGGCACTTGGTGCACCTATCGAGAAAACGATCTCC AAGGCTAAGGGTCAGCCAAGAGAACCCCAAGTCTACACT CTGCCCCCTAGCCGCGACGAGCTTACGAAAAACCAGGTG TCGCTCACTTGTGGTGAAGGGTTTCTATCCGAGCGAT ATTGTGGTAGAGTGGGAATCCAACGGGCAGCCAGAGAAC AATTACAAGACGACGCCACCAGTGCTGGATTCCGGATGGG AGCTTTTCTTGTACTCAAAGTTGACCGTGGATAAAAGC CGGTGGCAGCAGGGTAATGTGTTTTCATGCTCGGTAATG CACGAGGCCCTCCATAACCATTATACGCAGAAAAGCCTT TCGCTTCACCCGGGAAA</p>
<p>Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P)</p>		
<p>568</p>	<p>IL2 C125S fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAACTTT CATTTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC</p>

		<p>TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>569</p>	<p>Stabilized IL-2 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCACCTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>570</p>	<p>IL2-037 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCACCTTATCGCGTGGTTTTAGTCTTACAGTCTTG</p>

		<p>CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>571</p>	<p>IL2-062 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>572</p>	<p>IL2-118 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTTTTTGTTC</p>

		<p>CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>573</p>	<p>IL2-035 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>574</p>	<p>IL2-073 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCCCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>575</p>	<p>IL2-077 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>576</p>	<p>IL2-043 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>577</p>	<p>IL2-036 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>578</p>	<p>IL2-068 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>579</p>	<p>IL2-106 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>580</p>	<p>IL2-107 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>581</p>	<p>IL2-119 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>582</p>	<p>K35E/D84V mutein fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>583</p>	<p>IL2-115 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>584</p>	<p>IL2-109 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>585</p>	<p>IL2-113 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTCCT CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATAAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>586</p>	<p>IL2-120 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTCCT CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>587</p>	<p>R38Q/D84V mutein fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>588</p>	<p>IL2-116 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCCCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>589</p>	<p>IL2-088 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>590</p>	<p>IL2-097 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>591</p>	<p>R38N/H16L mutein fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>592</p>	<p>IL2-098 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATAAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>593</p>	<p>IL2-100 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>594</p>	<p>IL2-090 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>595</p>	<p>IL2-092 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>596</p>	<p>IL2-110 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT</p>

		GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
597	IL2-Inactive fused to IgG4 Fc S228P	GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
598	IL2-99 fused to IgG4 Fc S228P	GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>599</p>	<p>IL2-101 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>600</p>	<p>IL2-102 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>601</p>	<p>IL2-103 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>602</p>	<p>IL2-104 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>603</p>	<p>IL2-114 fused to IgG4 Fc S228P</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>604</p>	<p>IL2-117 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>605</p>	<p>IL2-108 fused to IgG4 Fc S228P</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCAGTTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P/R409K)		
606	IL2 C125S fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCTTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA
607	Stabilized IL-2 fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACCTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTFTTTGTTTCCA

		<p>CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>608</p>	<p>IL2-037 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAAATTACAAAAATCCTAAACTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>609</p>	<p>IL2-062 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>610</p>	<p>IL2-118 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>611</p>	<p>IL2-035 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>612</p>	<p>IL2-073 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>613</p>	<p>IL2-077 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>614</p>	<p>IL2-043 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>615</p>	<p>IL2-036 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCTAAACTTT CATTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

616	IL2-068 fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA
617	IL2-106 fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>618</p>	<p>IL2-107 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTACGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>619</p>	<p>IL2-119 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>620</p>	<p>K35E/D84V mutein fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>621</p>	<p>IL2-115 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>622</p>	<p>IL2-109 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCTTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>623</p>	<p>IL2-113 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>624</p>	<p>IL2-120 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>625</p>	<p>R38Q/D84V mutein fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTACGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>626</p>	<p>IL2-116 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>627</p>	<p>IL2-088 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCC TGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>628</p>	<p>IL2-097 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCC TGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>629</p>	<p>R38N/H16L mutein fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGTCGCGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCTTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCTGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>630</p>	<p>IL2-098 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>631</p>	<p>IL2-100 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>632</p>	<p>IL2-090 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>633</p>	<p>IL2-092 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>634</p>	<p>IL2-110 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGTCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATAAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>635</p>	<p>IL2-Inactive fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAAGTTTGTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>636</p>	<p>IL2-99 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

637	IL2-101 fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA
638	IL2-102 fused to IgG4 Fc S228P/R409K	GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>639</p>	<p>IL2-103 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTGCAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>640</p>	<p>IL2-104 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>641</p>	<p>IL2-114 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>642</p>	<p>IL2-117 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>643</p>	<p>IL2-108 fused to IgG4 Fc S228P/R409K</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTACAGTCTTG CACCAAGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGCTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P Mut215)</p>		

<p>644</p>	<p>IL2 C125S fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>645</p>	<p>Stabilized IL-2 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>646</p>	<p>IL2-037 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>647</p>	<p>IL2-062 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>648</p>	<p>IL2-118 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>649</p>	<p>IL2-035 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>650</p>	<p>IL2-073 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>651</p>	<p>IL2-077 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAACGTAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>652</p>	<p>IL2-043 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>653</p>	<p>IL2-036 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>654</p>	<p>IL2-068 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>655</p>	<p>IL2-106 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>656</p>	<p>IL2-107 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>657</p>	<p>IL2-119 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>658</p>	<p>K35E/D84V mutein fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCCCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>659</p>	<p>IL2-115 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>660</p>	<p>IL2-109 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>661</p>	<p>IL2-113 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>662</p>	<p>IL2-120 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>663</p>	<p>R38Q/D84V mutein fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTGCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>664</p>	<p>IL2-116 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>665</p>	<p>IL2-088 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>666</p>	<p>IL2-097 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>667</p>	<p>R38N/H16L mutein fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>668</p>	<p>IL2-098 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>669</p>	<p>IL2-100 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>670</p>	<p>IL2-090 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>671</p>	<p>IL2-092 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>672</p>	<p>IL2-110 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCCCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>673</p>	<p>IL2-Inactive fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>674</p>	<p>IL2-99 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>675</p>	<p>IL2-101 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>676</p>	<p>IL2-102 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>677</p>	<p>IL2-103 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>678</p>	<p>IL2-104 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>679</p>	<p>IL2-114 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCTTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>680</p>	<p>IL2-117 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>681</p>	<p>IL2-108 fused to IgG4 Fc S228P Mut215</p>	<p>GCCCCTACGTCCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCACAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTACGTTGTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAGATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>Exemplary IL-2-Fc Fusion Proteins (IgG4 Fc S228P/R409K Mut215)</p>		
<p>682</p>	<p>IL2 C125S fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCTACGTCCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGTATTGAATCTTGCTCAGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGTCTTG</p>

		<p>CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>683</p>	<p>Stabilized IL-2 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>684</p>	<p>IL2-037 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGGATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCTGAGTTCCCTCGGCGGTCCCTTCAGTGTTTTTGTTC</p>

		<p>CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>685</p>	<p>IL2-062 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTCAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>686</p>	<p>IL2-118 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTTCTTACAGCAAATTGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>687</p>	<p>IL2-035 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAACCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>688</p>	<p>IL2-073 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGTTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>689</p>	<p>IL2-077 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATACGTAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>690</p>	<p>IL2-043 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCCTGATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>691</p>	<p>IL2-036 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAGCATCAACGTG ATCGTCCTGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGTCCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>692</p>	<p>IL2-068 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>693</p>	<p>IL2-106 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>694</p>	<p>IL2-107 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>695</p>	<p>IL2-119 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>696</p>	<p>K35E/D84V mutein fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCCTTCAGTGTTTTTGTTC CCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>697</p>	<p>IL2-115 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAGAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>698</p>	<p>IL2-109 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>699</p>	<p>IL2-113 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>700</p>	<p>IL2-120 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>701</p>	<p>R38Q/D84V mutein fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGTGTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>702</p>	<p>IL2-116 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTCAGATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>703</p>	<p>IL2-088 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>704</p>	<p>IL2-097 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>705</p>	<p>R38N/H16L mutein fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGTTGCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAC TGAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>706</p>	<p>IL2-098 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTACTAACATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACATAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCTCAAAAACCTT CATTGCGGCCACGAGTCCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACCATAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCCCTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>707</p>	<p>IL2-100 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>708</p>	<p>IL2-090 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>709</p>	<p>IL2-092 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGAAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>710</p>	<p>IL2-110 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCTGGAAGTAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>711</p>	<p>IL2-Inactive fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGGCAAAGTTTGCTATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATGGTGTCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCGATATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>712</p>	<p>IL2-99 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

		<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>713</p>	<p>IL2-101 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCCGGAACGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCCTCGGCGGTCTTCAGTGTFTTTGTTTCCA CCCAAACC TAAAGACACCCTTATGATCTCTCGAACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCCTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>

<p>714</p>	<p>IL2-102 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGTCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTCTCCTCTACAGCAAATGACGGTAGAC AAAAGCCGTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGCTCTTGGGAAA</p>
<p>715</p>	<p>IL2-103 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCCACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACCTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGGAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT</p>

		<p>GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>716</p>	<p>IL2-104 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTGAAATG CTCACGTTTAAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGTTCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTTCCCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>717</p>	<p>IL2-114 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGGTCTTTCAGTGTTTTTGTTC CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGTCTTG CACGTGGATTGGCTTAACGGAAGGAATATAAGTGCAAG</p>

		<p>GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>718</p>	<p>IL2-117 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGCATCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTAAACTTACTAGAATG CTCACGCAGAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG AGCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATTGAAAAAAC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
<p>719</p>	<p>IL2-108 fused to IgG4 Fc S228P/R409K Mut215</p>	<p>GCCCTACGTCCTCCTCAACTAAAAAGACGCAACTTCAG CTTGAGAACCTTCTTCTCGACCTTCAGATGATTTTGAAC GGAATCAATAATTACAAAAATCCTGAACTTACTAACATG CTCACGTTTAAGTTTTATATGCCAAAAAAGGCCACTGAG TTGAAACACCTTCAATGCTTGGAGGAGGAACTTAAACCA CTTGAGGAAGCCTTGAATCTTGCTCCGTCCAAAAACTTT CATTTGCGGCCACGAGATCTGATAAGCAACATCAACGTG ATCGTCTTGAACTGAAAGGAAGCGAAACGACGTTTATG TGCGAATATGCAGACGAAACTGCGACAATCGTTGAATTT CTCAATCGATGGATCACTTTTAGCCAATCTATCATCAGC ACGTTGACTGGTGGTGGAGGATCGGGAGGTGGAGGATCT GGAGGAGGAGGATCGGGTGGAGGAGGATCC GAAAGTAAGTATGGCCCTCCTTGCCCTCCGTGCCCTGCA CCTGAGTTCCTCGGCGTCTTCAGTGTTTTTGTTCCTCA CCCAAACCTAAAGACACCCTTATGATCTCTCGAACACCT</p>

	<p>GAAGTAACCTGTGTAGTTGTTGATGTCTCACAGGAAGAT CCGGAGGTTCAATTTAATTGGTACGTCGATGGTGTGAA GTGCATAATGCGAAGACTAAGCCGAGAGAGGAACAGTTC AATTCCACTTATCGCGTGGTTTTAGTCTTCAGGTCTTG CACGTGGATTGGCTTAACGGAAAGGAATATAAGTGCAAG GTAAGTAATAAAGGGCTTCCATCAAGCATGAAAAAACC ATAAGTAAAGCAAAGGACAACCGAGGGAGCCCCAAGTC TACACGCTTCCTCCTTCTCAGGAGGAGATGACCAAAAAC CAGGTAAGTTTGACGTGTTTGGTAAAGGGGTTTTATCCC TCAGATATTGTTGTCGAATGGGAGTCTAATGGTCAGCCT GAGAACAATTACAAGACTACGCCACCCGTTCTGGATTCA GACGGATCTTTCTCCTCTACAGCAAATTGACGGTAGAC AAAAGCCGCTGGCAAGAGGGCAATGTCTTCAGTTGTTCT GTAATGCACGAAGCCCTCCATAATCACTACACGCAGAAA TCTCTGAGCTTGTCTCTTGGGAAA</p>
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CLAIMS

1. An interleukin-2 (IL-2) variant, comprising:
 - (i) the amino acid substitution H16L or H16N, and/or the amino acid substitution I92S, and
 - (ii) the amino acid substitutions V69A, Q74P, and C125S,corresponding to human IL-2 (SEQ ID NO: 1031).
2. The IL-2 variant of claim 1, further comprising the amino acid substitution T3A.
3. The IL-2 variant of claim 1 or 2, comprising the amino acid sequence of any of SEQ ID NOs: 4, 5, 11, 1000, 1001, or 1002, an amino acid sequence that is at least 95% identical thereto or differs by no more than 1, 2, 3, 4, or 5 amino acids therefrom, or a functional fragment thereof.
4. The IL-2 variant of any of claims 1-3, which selectively stimulates regulatory T cells (Tregs).
5. An IL-2 fusion protein comprising the IL-2 variant of any of claims 1-4.
6. The IL-2 fusion protein of claim 5, further comprising an Fc region.
7. The IL-2 fusion protein of claim 6, wherein the Fc region comprises an Fc region of IgG1 allotype m3 comprising an N297G substitution according to EU numbering.
8. The IL-2 fusion protein of claim 6 or 7, wherein the Fc region comprises the amino acid sequence of SEQ ID NO: 1003, or an amino acid sequence that is at least 95% identical thereto or differs by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 amino acids therefrom, or a functional fragment thereof.
9. The IL-2 fusion protein of any of claims 6-8, wherein the Fc region is fused to the C-terminus of the IL-2 variant.
10. The IL-2 fusion protein of any of claims 6-9, further comprising a linker.
11. The IL-2 fusion protein of claim 10, wherein the linker comprises (G₄S)₄ (SEQ ID NO: 48).
12. The IL-2 fusion protein of any of claims 6-11, comprising an amino acid sequence of any of SEQ ID NOs: 1004, 1005, 1006, 1007, 1008, or 1009, an amino acid sequence that is at least 95%

identical thereto or differs by no more than 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 amino acids therefrom, or a functional fragment thereof.

13. The IL-2 fusion protein of any of claims 6-12, which forms a dimer.
14. An IL-2 complex comprising the IL-2 variant of any of claims 1-4 and an anti-IL-2 antibody molecule.
15. An IL-2 conjugate comprising the IL-2 variant of any of claims 1-4 and a non-IL-2 moiety.
16. A pharmaceutical composition comprising the IL-2 variant of any of claims 1-4 and a pharmaceutically acceptable carrier.
17. A pharmaceutical composition comprising the IL-2 fusion protein of any of claims 5-13 and a pharmaceutically acceptable carrier.
18. A pharmaceutical composition comprising the IL-2 complex of claim 14 and a pharmaceutically acceptable carrier.
19. A pharmaceutical composition comprising the IL-2 conjugate of claim 15 and a pharmaceutically acceptable carrier.
20. A nucleic acid encoding the IL-2 variant of any of claims 1-4.
21. A nucleic acid encoding the IL-2 fusion protein any of claims 5-13.
22. A nucleic acid encoding the IL-2 complex of claim 14.
23. A nucleic acid encoding the IL-2 conjugate of claim 15.
24. A vector comprising the nucleic acid of claim 20.
25. A vector comprising the nucleic acid of claim 21.
26. A vector comprising the nucleic acid of claim 22.
27. A vector comprising the nucleic acid of claim 23.

28. A cell comprising the nucleic acid of claim 20.
29. A cell comprising the nucleic acid of claim 21.
30. A cell comprising the nucleic acid of claim 22.
31. A cell comprising the nucleic acid of claim 23.
32. A method of producing an IL-2 variant, comprising culturing the cell of claim 28 under conditions that allow expression of the IL-2 variant.
33. A method of producing an IL-2 fusion protein, comprising culturing the cell of claim 29 under conditions that allow expression of the IL-2 fusion protein.
34. A method of producing an IL-2 complex, comprising culturing the cell of claim 30 under conditions that allow expression of the IL-2 complex.
35. A method of producing an IL-2 conjugate, comprising culturing the cell of claim 31 under conditions that allow expression of the IL-2 conjugate.
36. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.
37. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
38. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.

39. A method of enhancing regulatory T cell (Treg) expansion, activity, survival, and/or proliferation, comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
40. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.
41. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
42. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
43. A method of selectively activating the IL-2 signaling pathway in regulatory T cells (Tregs), comprising contacting a Treg cell or a population of Treg cells *in vitro*, *ex vivo*, or *in vivo*, or administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
44. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.
45. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of claim 5-13.
46. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
47. A method of inducing immune tolerance, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
48. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.

49. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
50. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
51. A method of treating an autoimmune disease, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
52. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.
53. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
54. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
55. A method of treating lupus nephritis, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
56. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.
57. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
58. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
59. A method of treating autoimmune hepatitis, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
60. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 variant of any of claims 1-4.

61. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 fusion protein of any of claims 5-13.
62. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 complex of claim 14.
63. A method of treating nephrotic syndrome, comprising administering to a subject in need thereof an effective amount of the IL-2 conjugate of claim 15.
64. A kit comprising the IL-2 variant of any of claims 1-4 and instructions for use.
65. A kit comprising the IL-2 fusion protein of any of claims 5-13 and instructions for use.
66. A kit comprising the IL-2 complex of claim 14 and instructions for use.
- 5 67. A kit comprising the IL-2 conjugate of claim 15 and instructions for use.
68. The IL-2 variant of any of claims 1-4 for use in a method of inducing immune tolerance in a subject.
69. The IL-2 fusion protein of any of claims 5-13 for use in a method of inducing immune tolerance in a subject.
70. The IL-2 complex of claim 14 for use in a method of inducing immune tolerance in a subject.
71. The IL-2 conjugate of claim 15 for use in a method of inducing immune tolerance in a subject.
72. The IL-2 variant of any of claims 1-4 for use in a method of treating an autoimmune disease in a subject.
73. The IL-2 fusion protein of any of claims 5-13 for use in a method of autoimmune hepatitis an autoimmune disease in a subject.
74. The IL-2 complex of claim 14 for use in a method of autoimmune hepatitis an autoimmune disease in a subject.

75. The IL-2 conjugate of claim 15 for use in a method of autoimmune hepatitis an autoimmune disease in a subject.
76. The IL-2 variant of any of claims 1-4 for use in a method of treating lupus nephritis in a subject.
77. The IL-2 fusion protein of any of claims 5-13 for use in a method of lupus nephritis in a subject.
78. The IL-2 complex of claim 14 for use in a method of treating lupus nephritis in a subject.
79. The IL-2 conjugate of claim 15 for use in a method of treating lupus nephritis in a subject.
80. The IL-2 variant of any of claims 1-4 for use in a method of treating autoimmune hepatitis in a subject.
81. The IL-2 fusion protein of any of claims 5-13 for use in a method of treating autoimmune hepatitis in a subject.
82. The IL-2 complex of claim 14 for use in a method of treating autoimmune hepatitis in a subject.
83. The IL-2 conjugate of claim 15 for use in a method of treating autoimmune hepatitis in a subject.
84. The IL-2 variant of any of claims 1-4 for use in a method of treating nephrotic syndrome in a subject.
85. The IL-2 fusion protein of any of claims 5-13 for use in a method of treating nephrotic syndrome in a subject.
86. The IL-2 complex of claim 14 for use in a method of treating nephrotic syndrome in a subject.
87. The IL-2 conjugate of claim 15 for use in a method of treating nephrotic syndrome in a subject.

APTSSSTKKTQLQLLEHLLLDLQMLNGINN 30
 YKNPKLTRLTKFFYMPKPKATELKHLCLE 60
 EELKPLEEVLNLAQSKNFHLRPRDLISNIN 90
 VIVLELKGSETTFMCEYADETATIVVEFLNR 120
 WITFCIQSIISTLTGS 133

C125S - improve stability (present in all sequences)
 V69A/Q74P - reduce aggregation
 H16, D84, S87, N88, I92 - sites mutated to affect affinity for
 CD122/CD132
 K35, R38, F42 - sites mutated to affect affinity for CD25

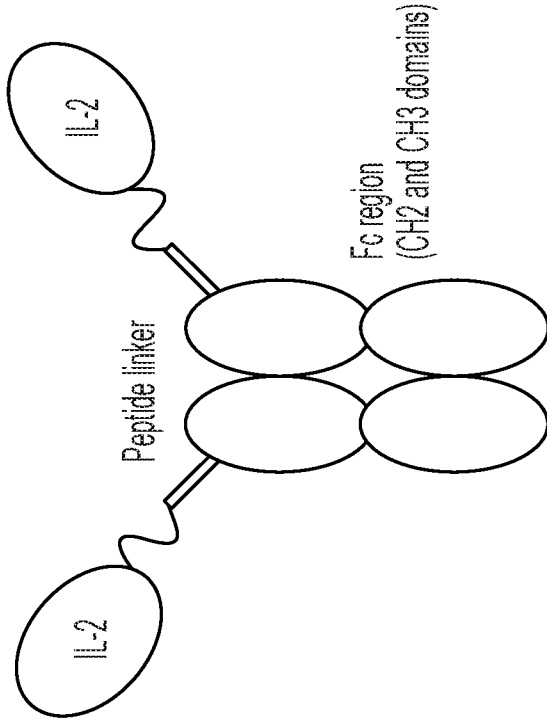


FIG. 1A

FIG. 1B

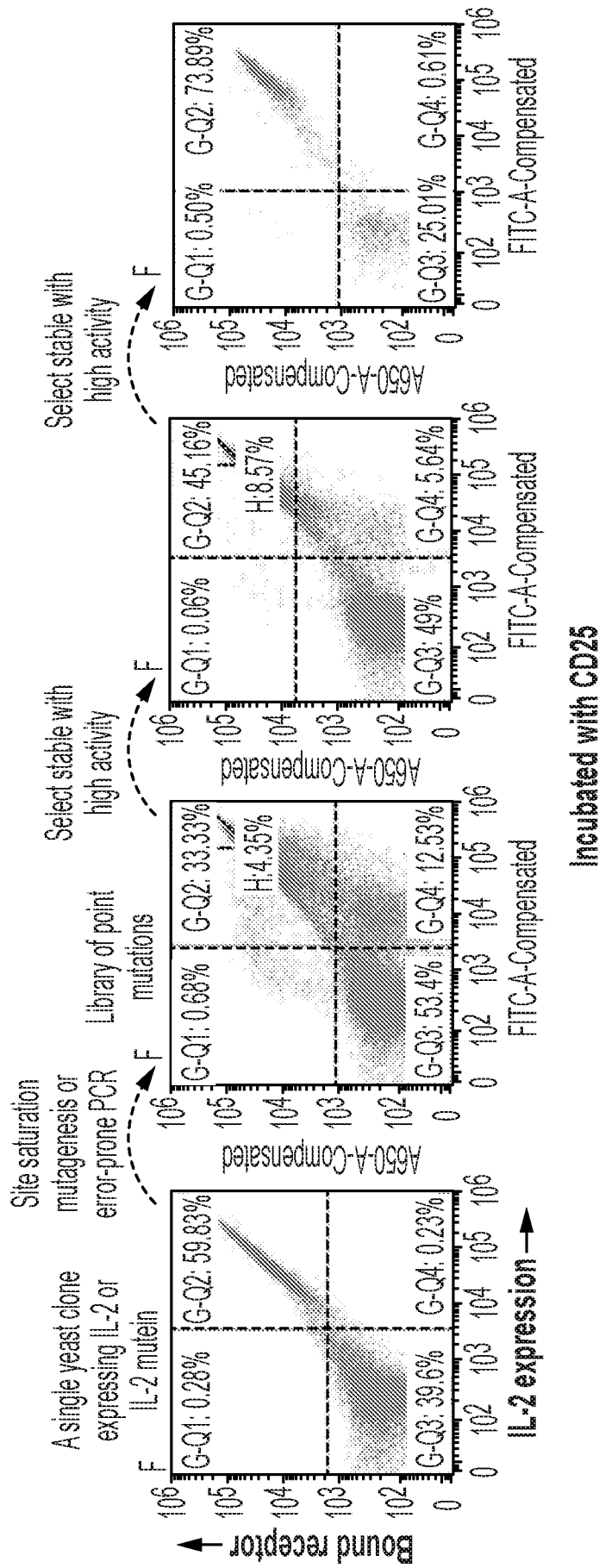


FIG. 2

Measuring affinity of IL-2 muteins for CD25 in yeast surface display

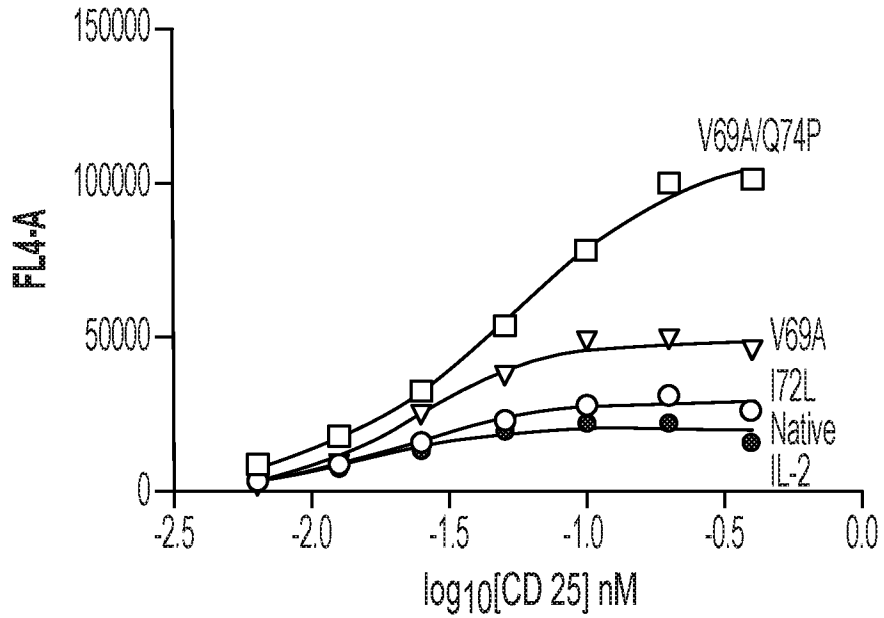


FIG. 3A

Binding capacity of IL-2 muteins in yeast surface display

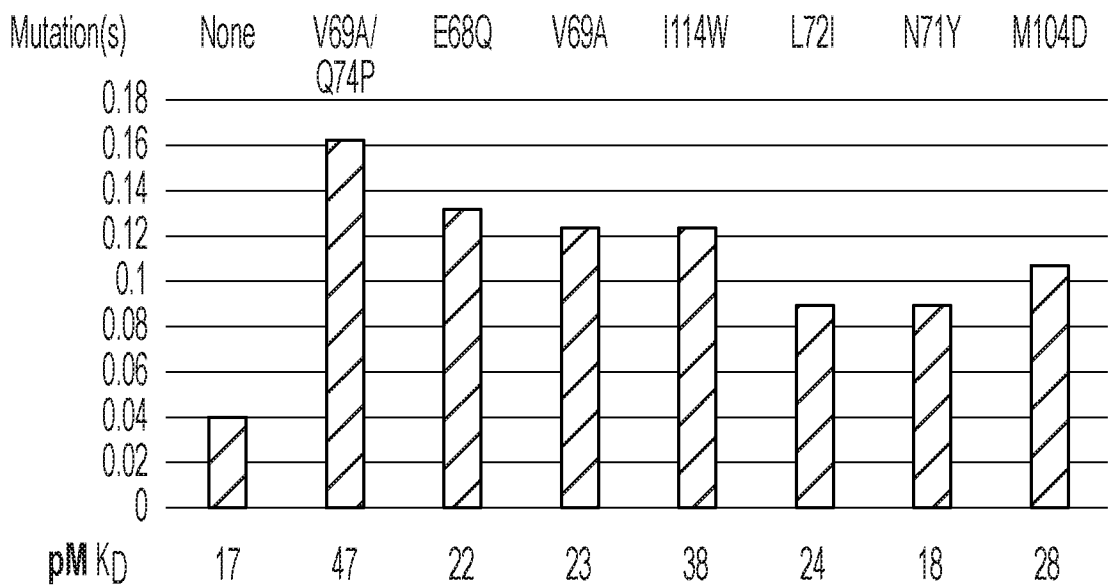


FIG. 3B

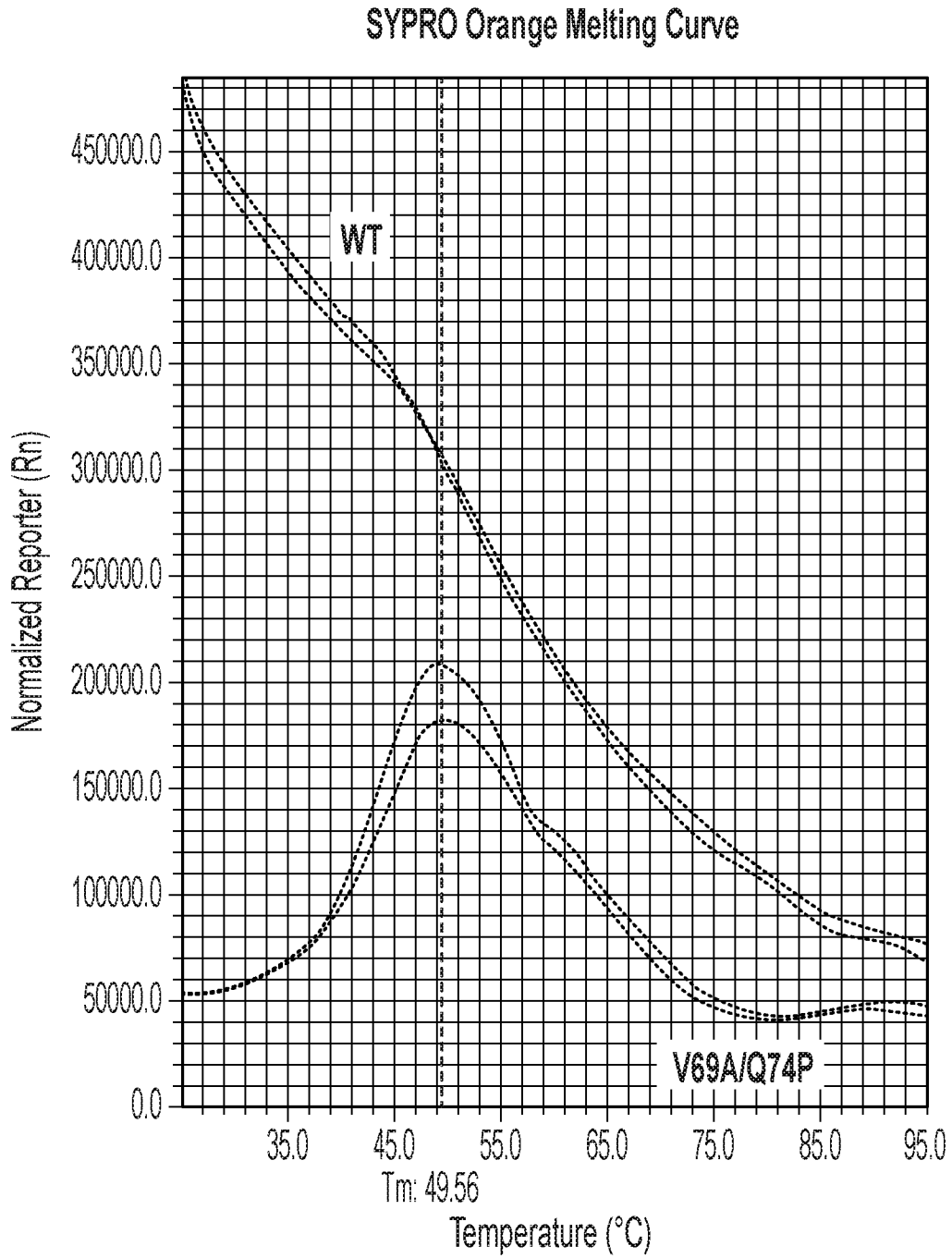


FIG. 4A

HPLC size-exclusion chromatography

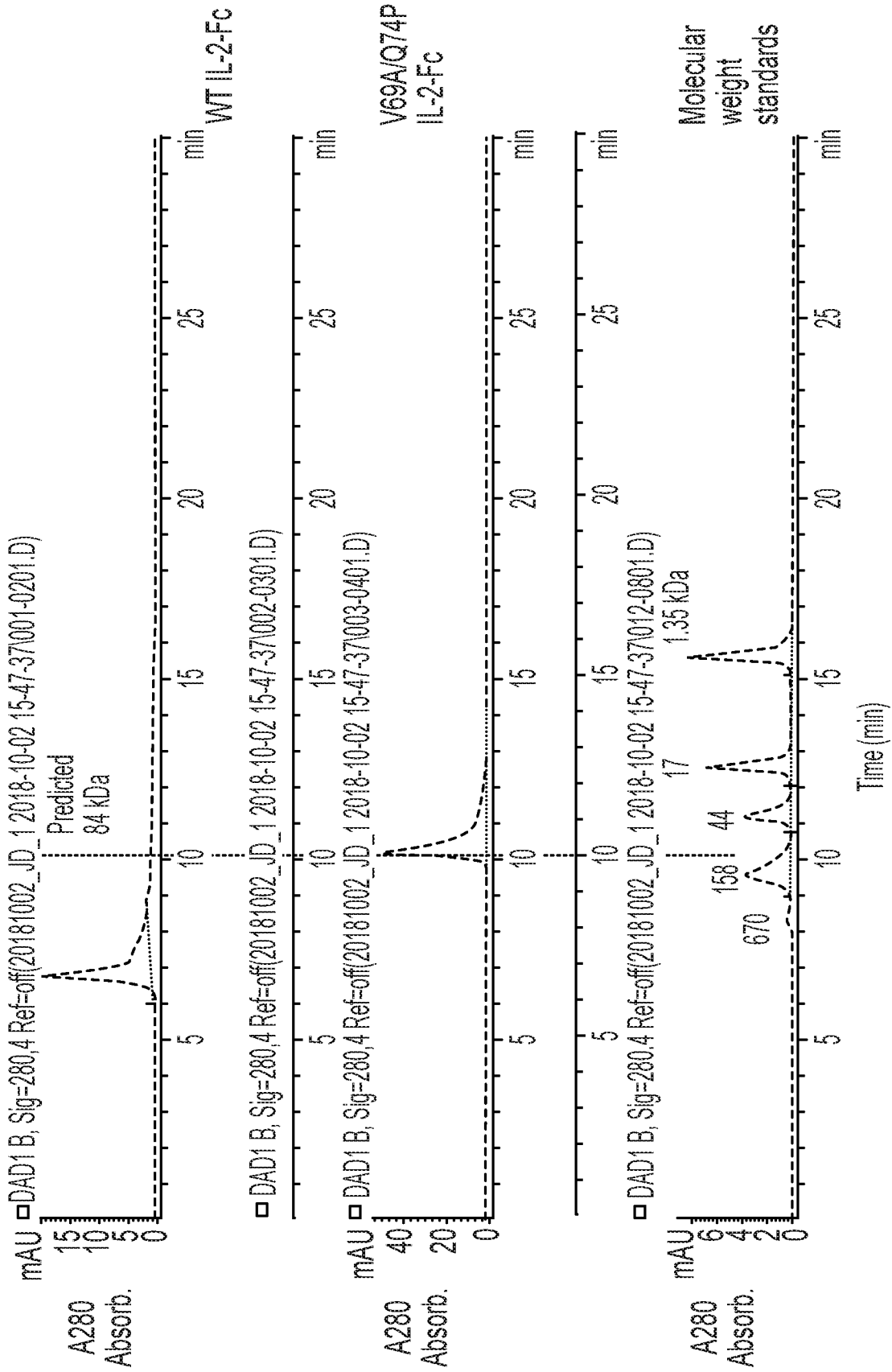


FIG. 4B

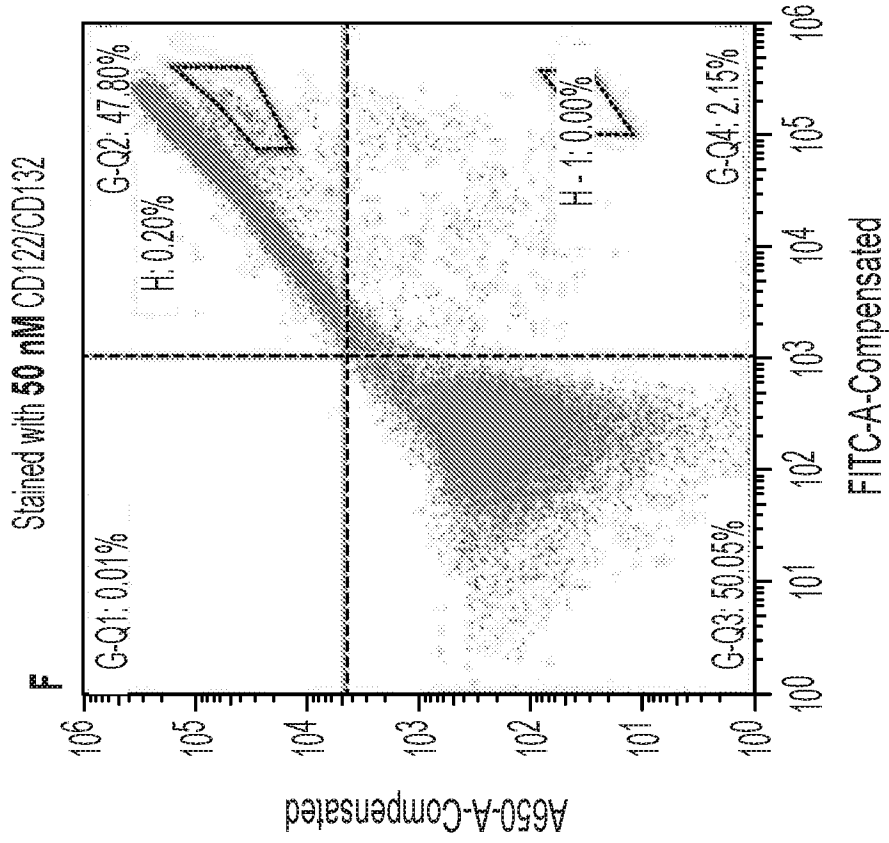


FIG. 5B

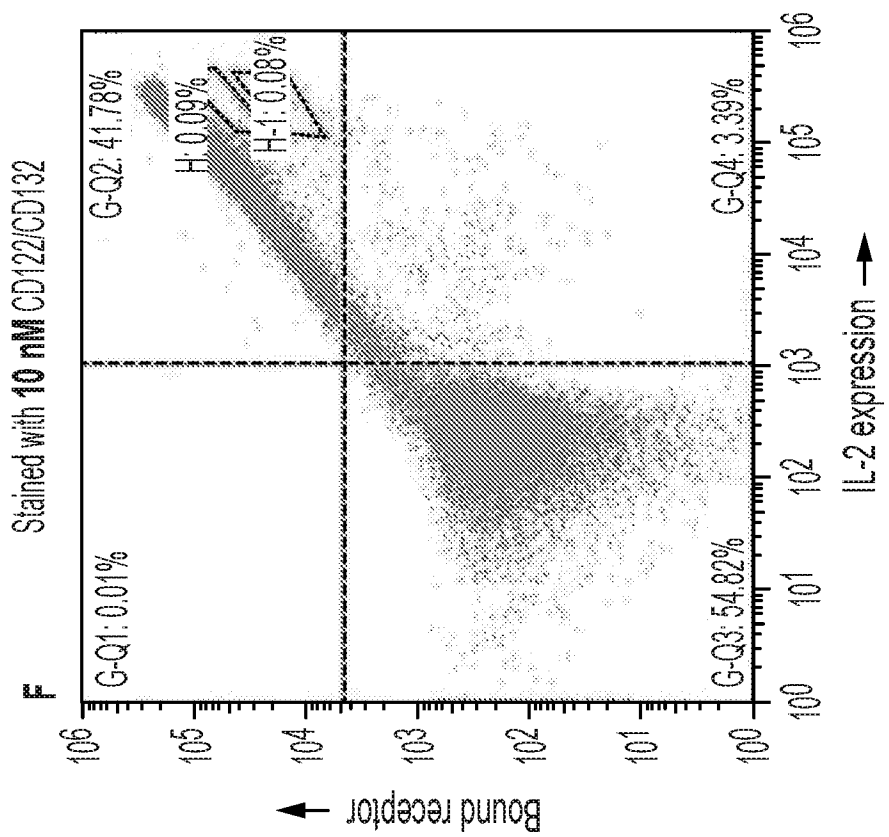


FIG. 5A

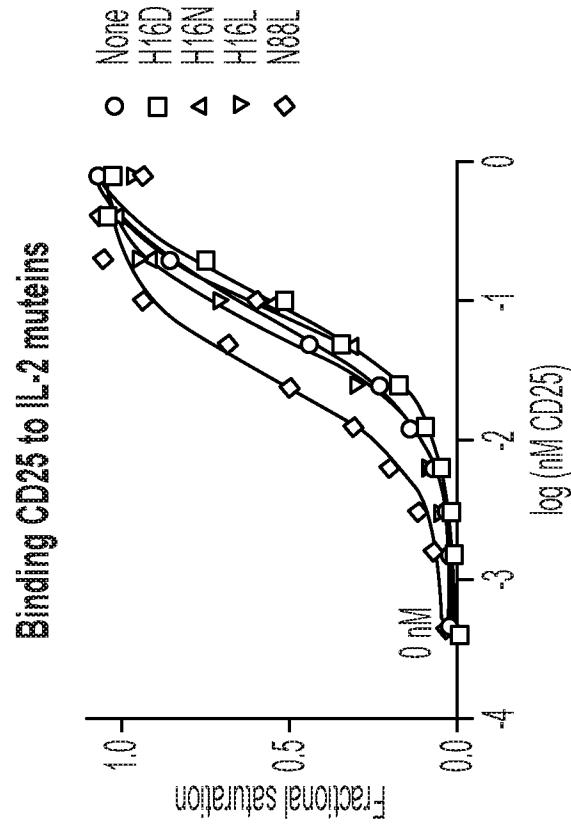


FIG. 6B

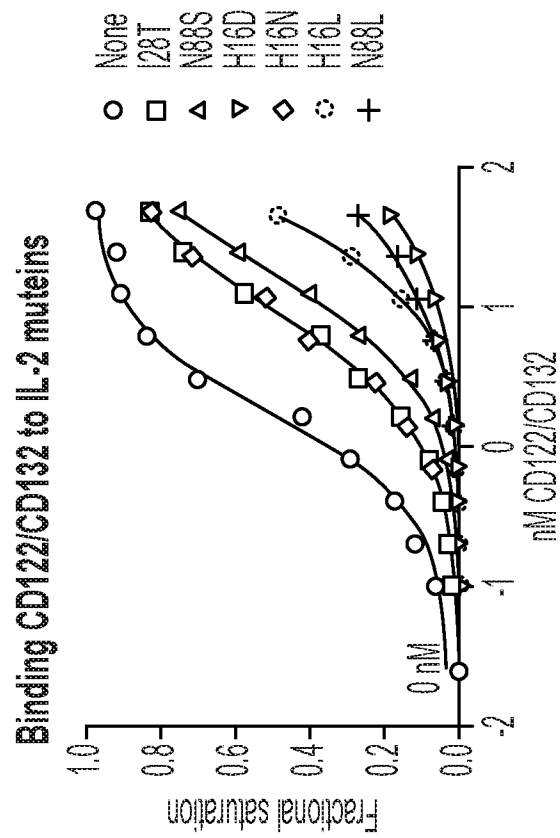


FIG. 6A

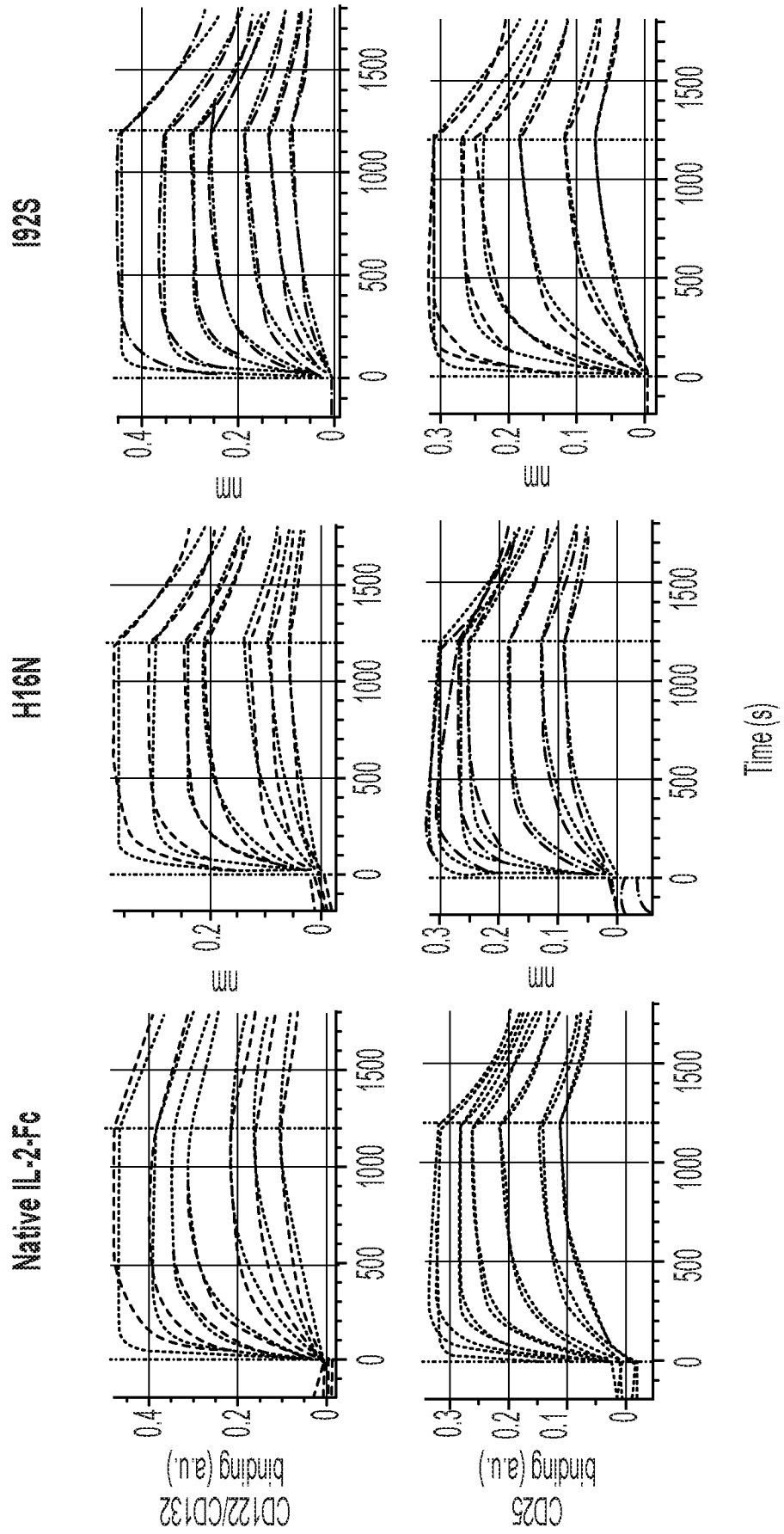


FIG. 7

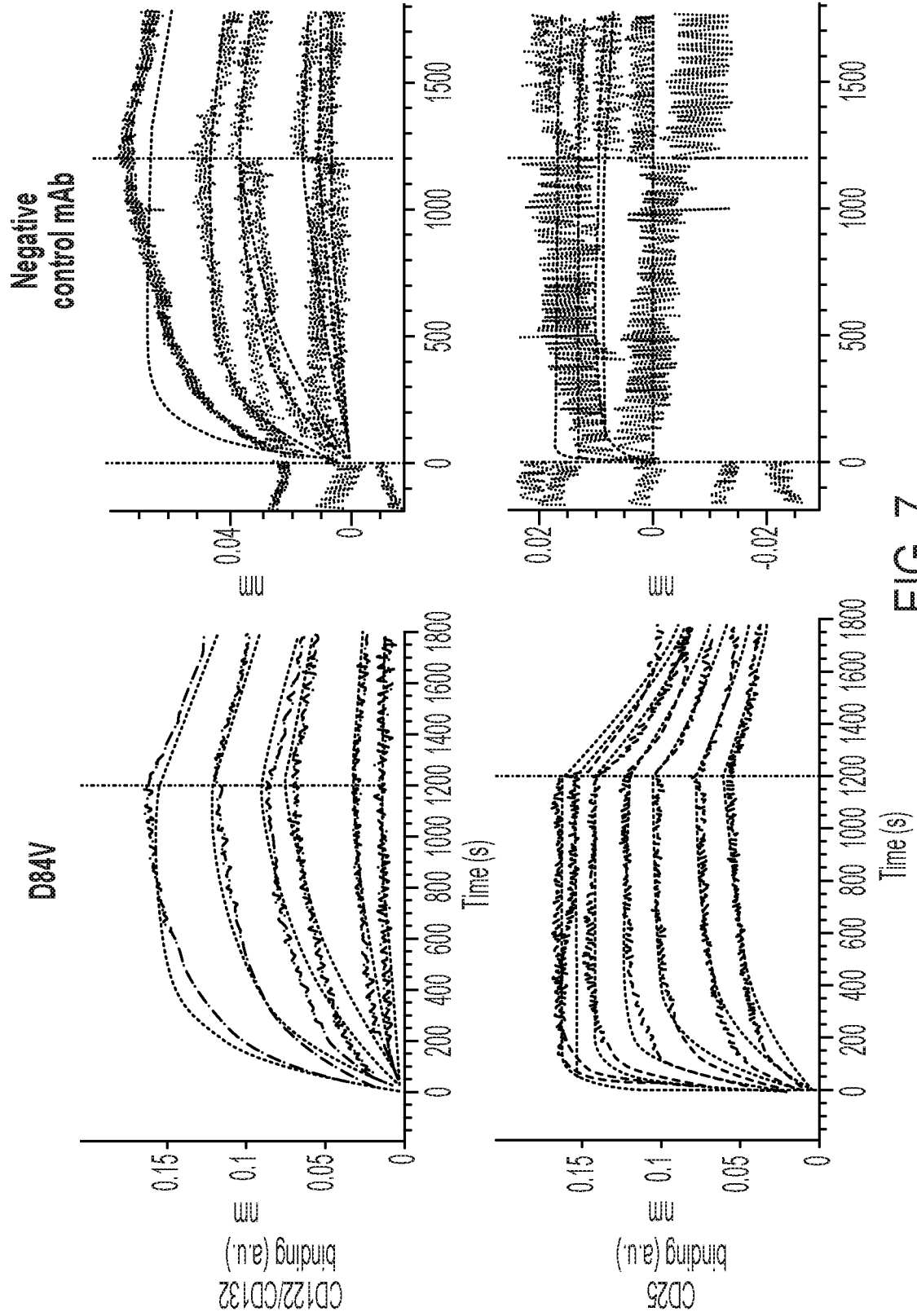


FIG. 7
continued

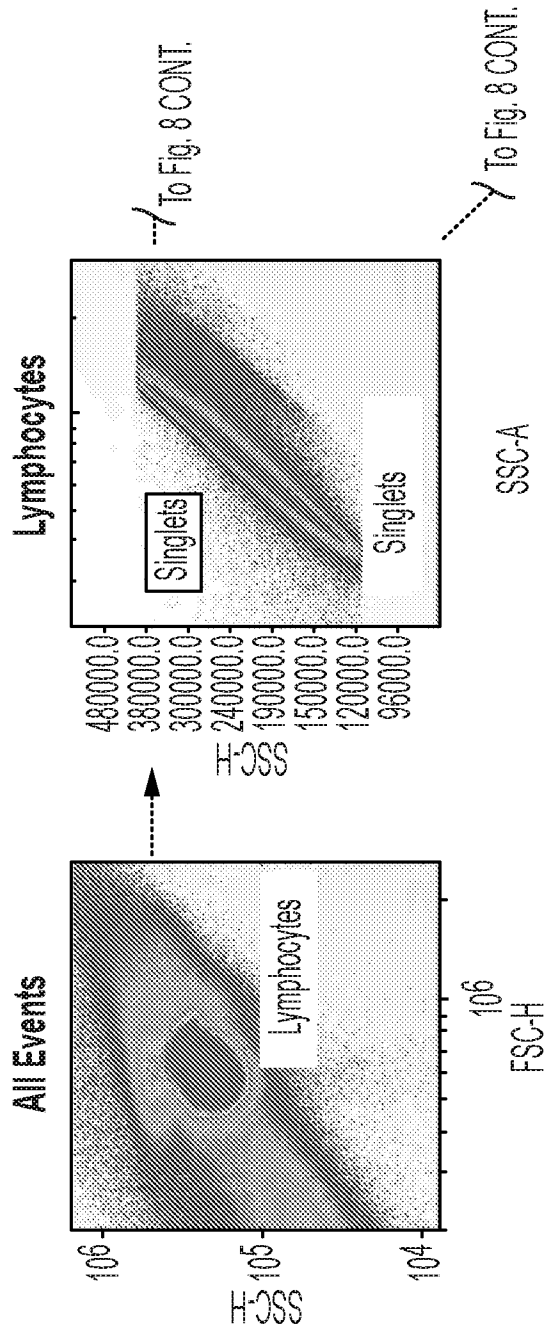


FIG. 8

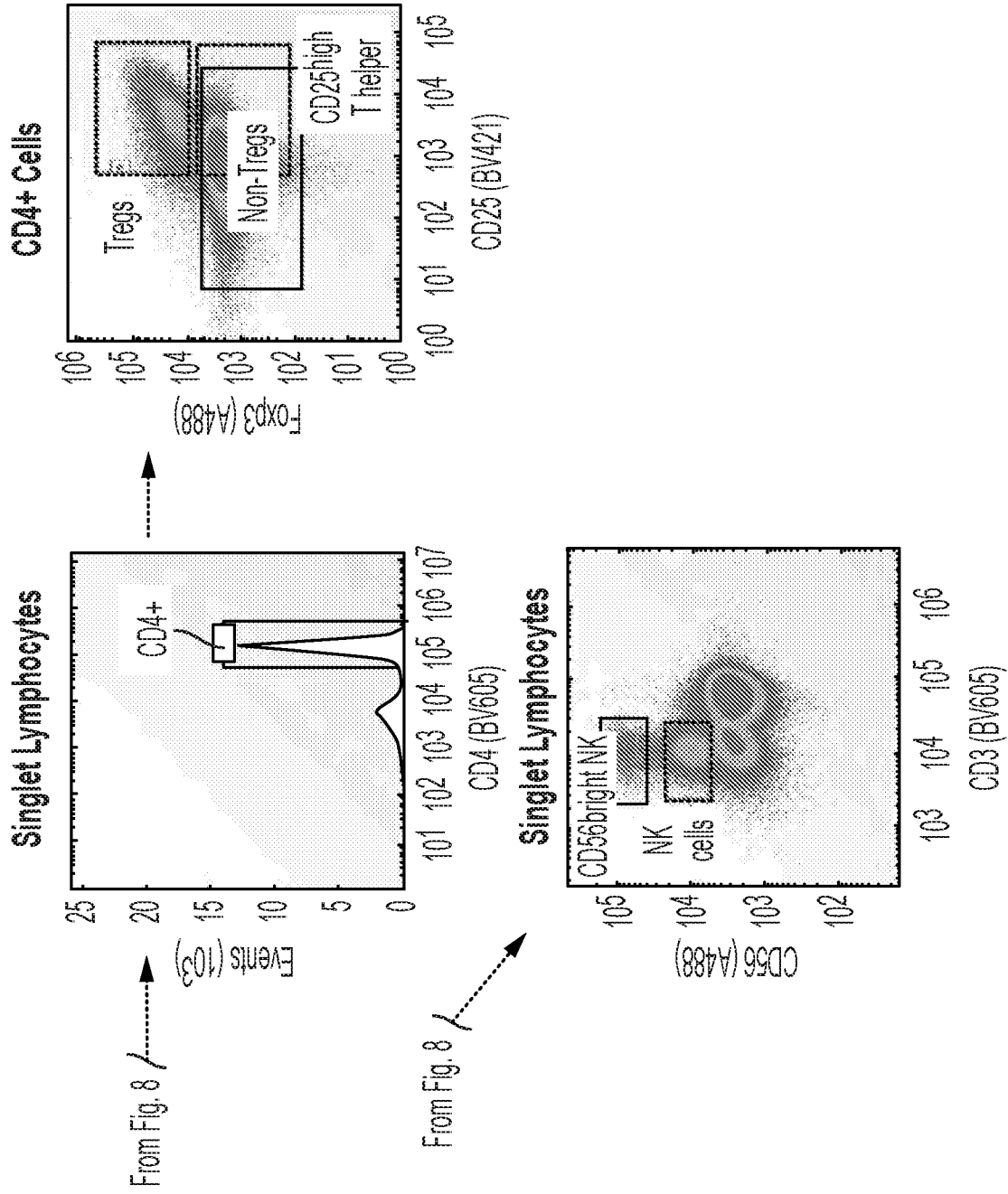


FIG. 8
continued

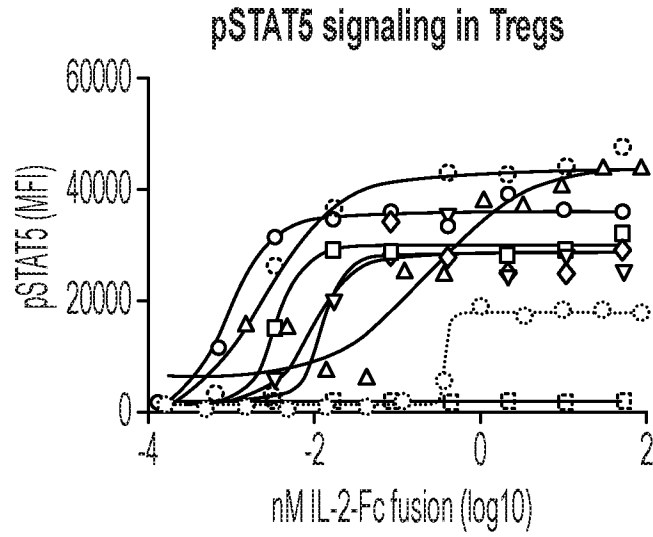


FIG. 9A

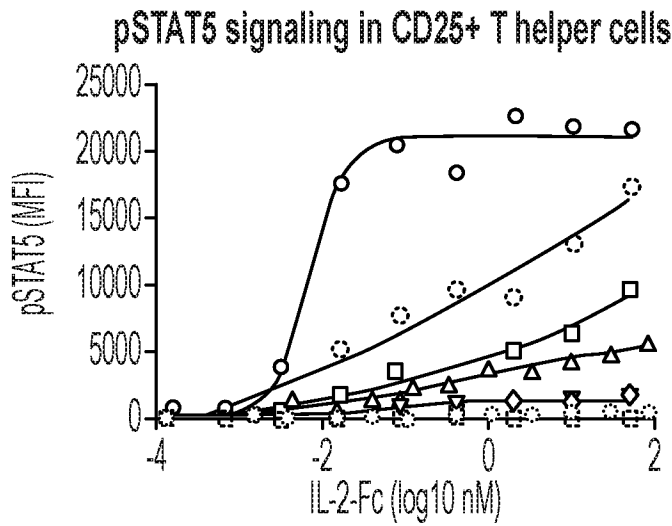


FIG. 9B

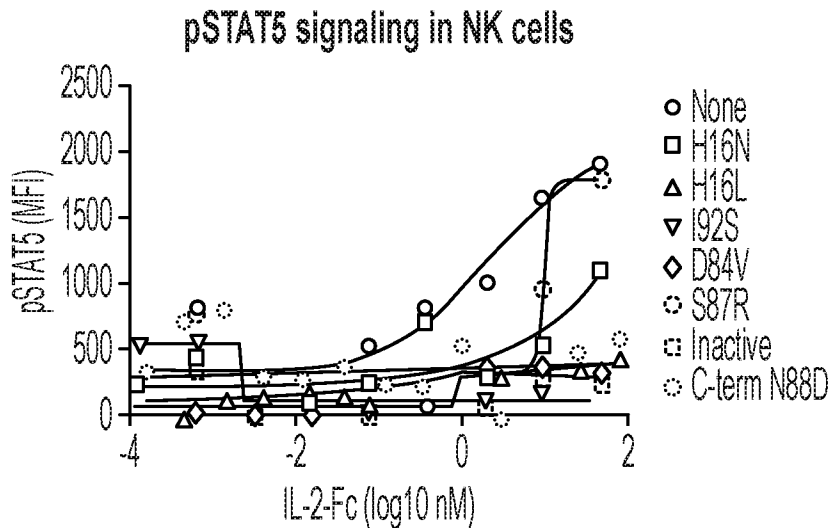


FIG. 9C

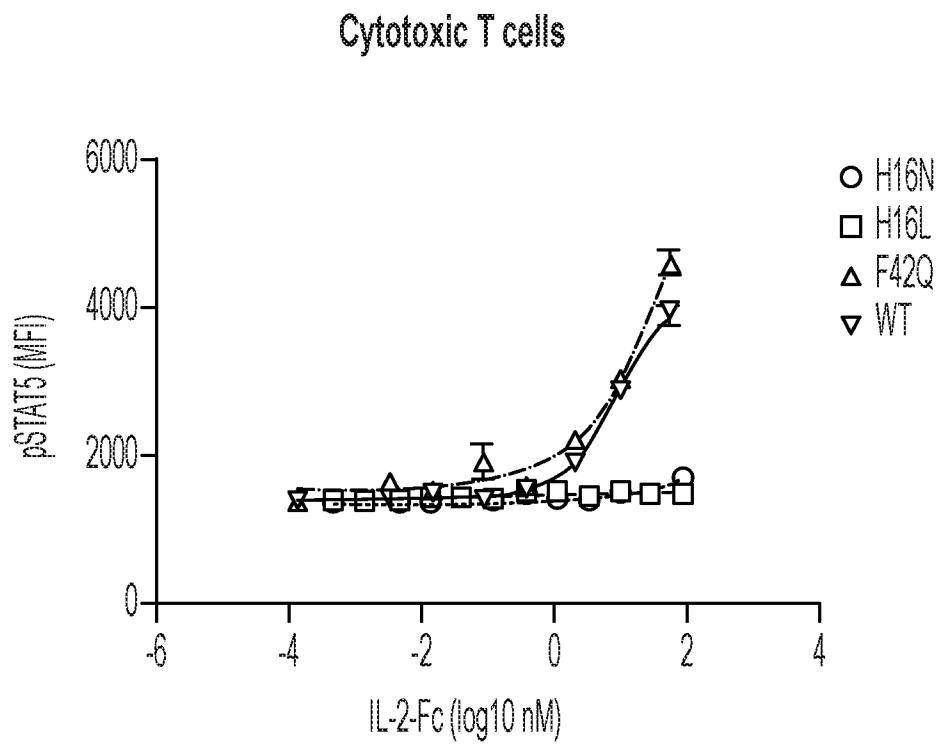


FIG. 9D

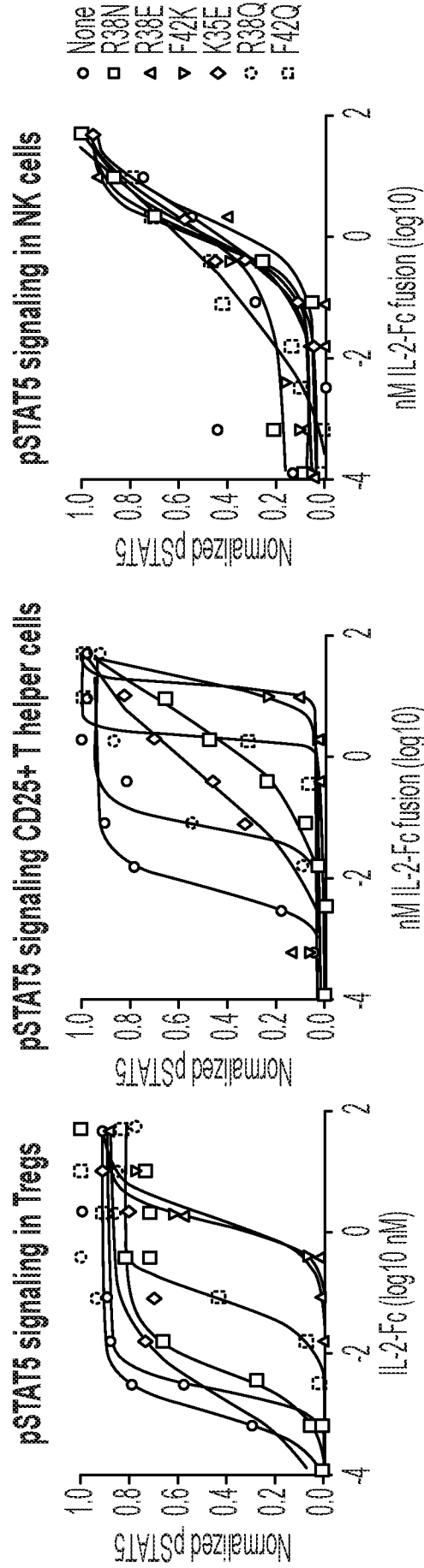


FIG. 10A

FIG. 10B

FIG. 10C

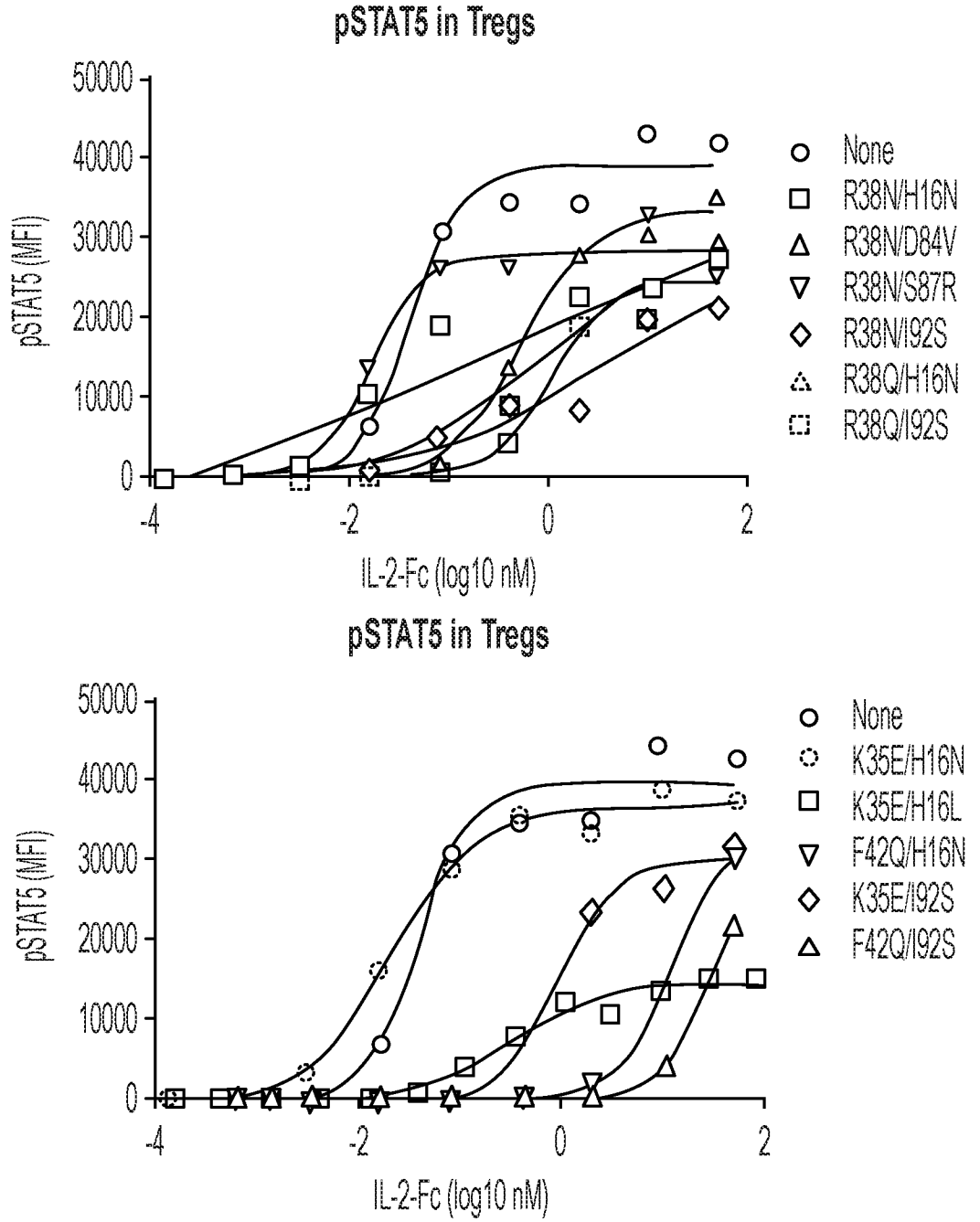


FIG. 11A

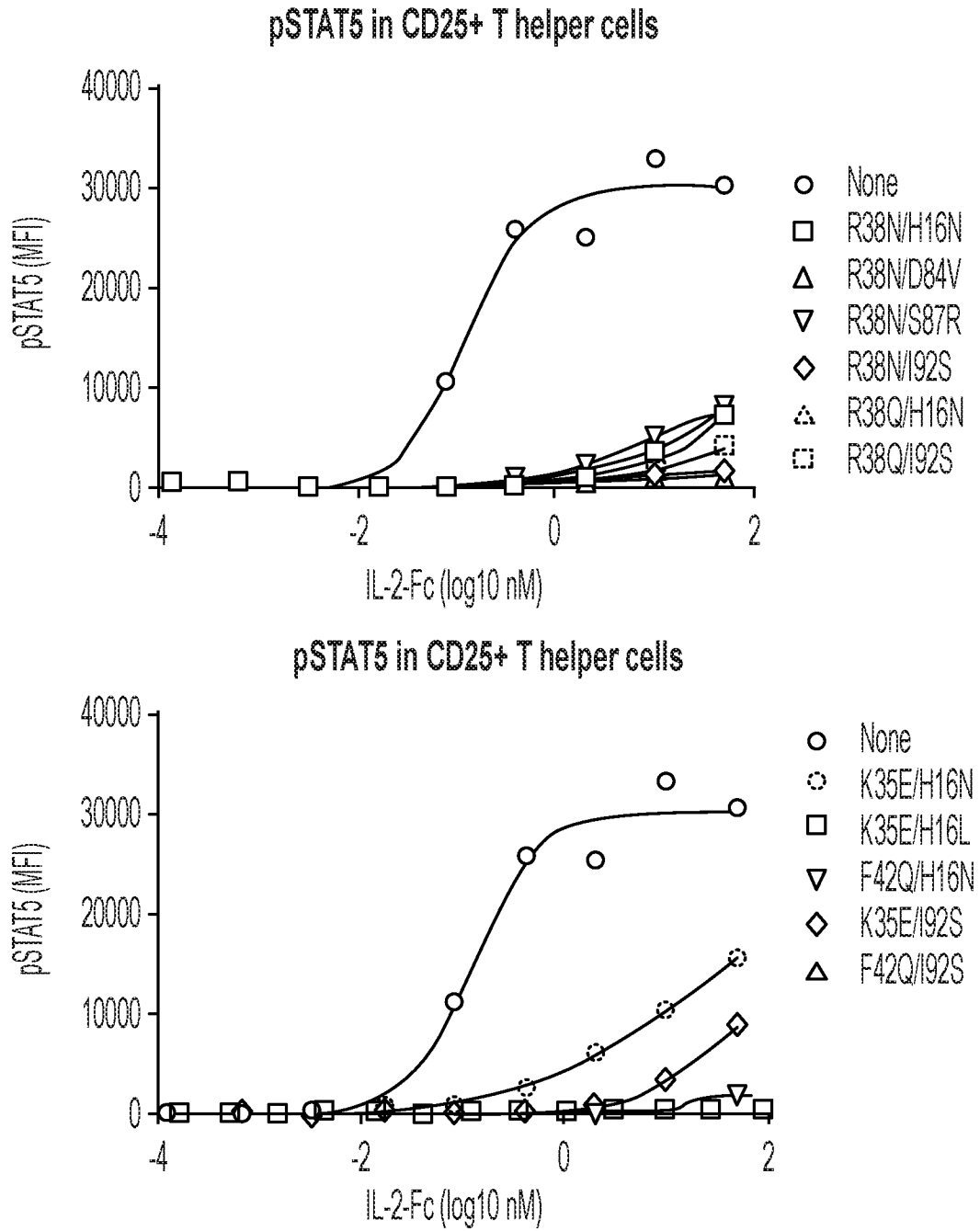


FIG. 11B

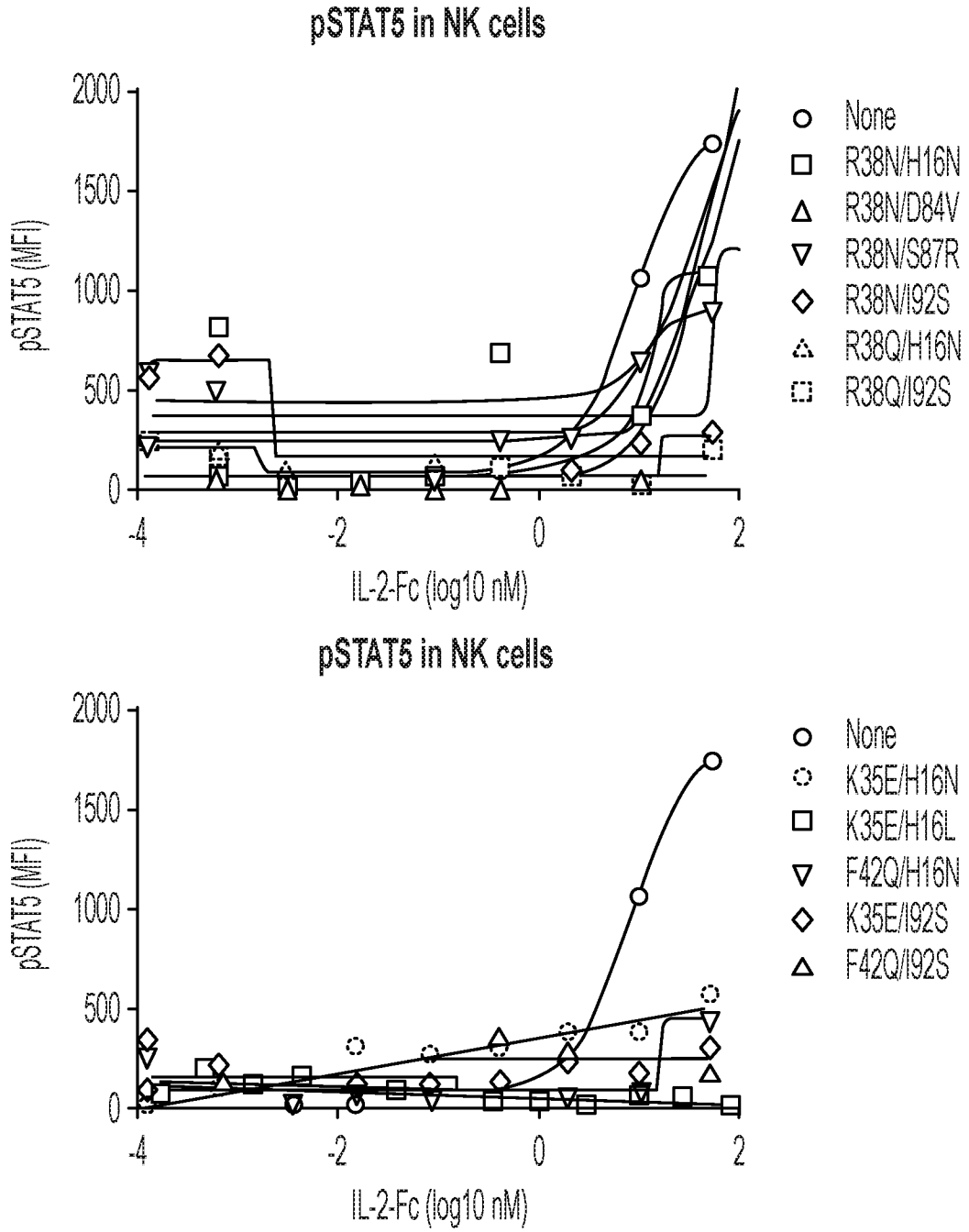


FIG. 11C

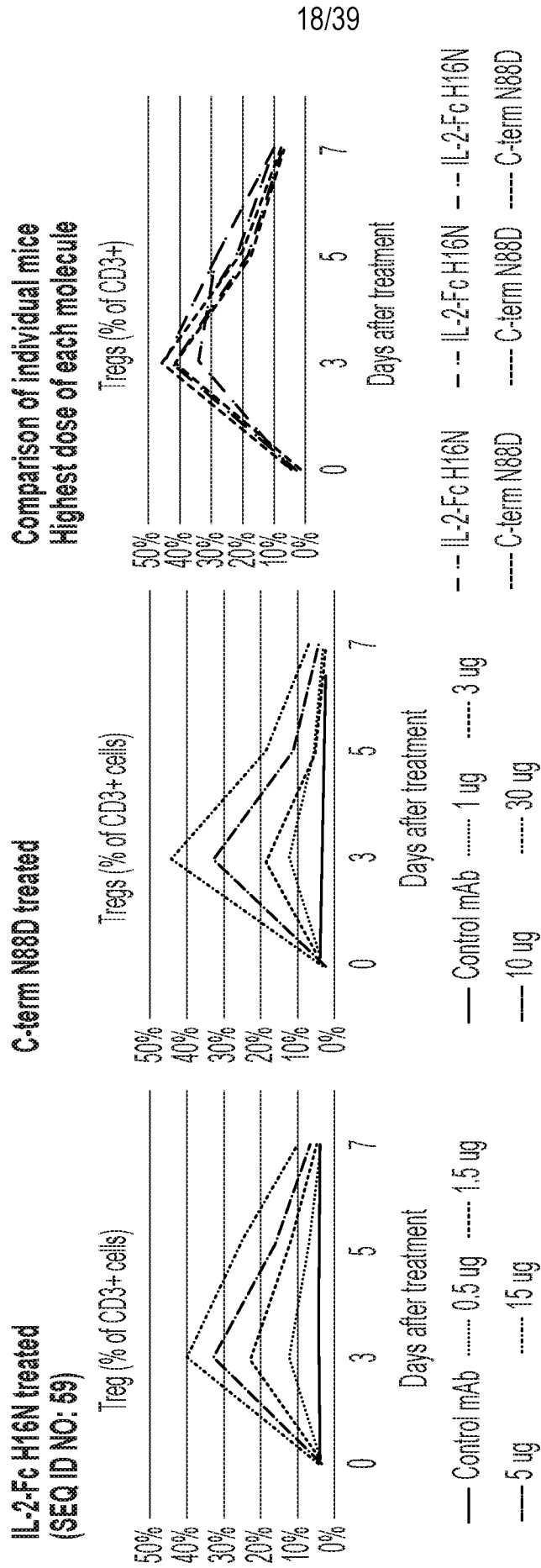


FIG. 12A

FIG. 12B

FIG. 12C

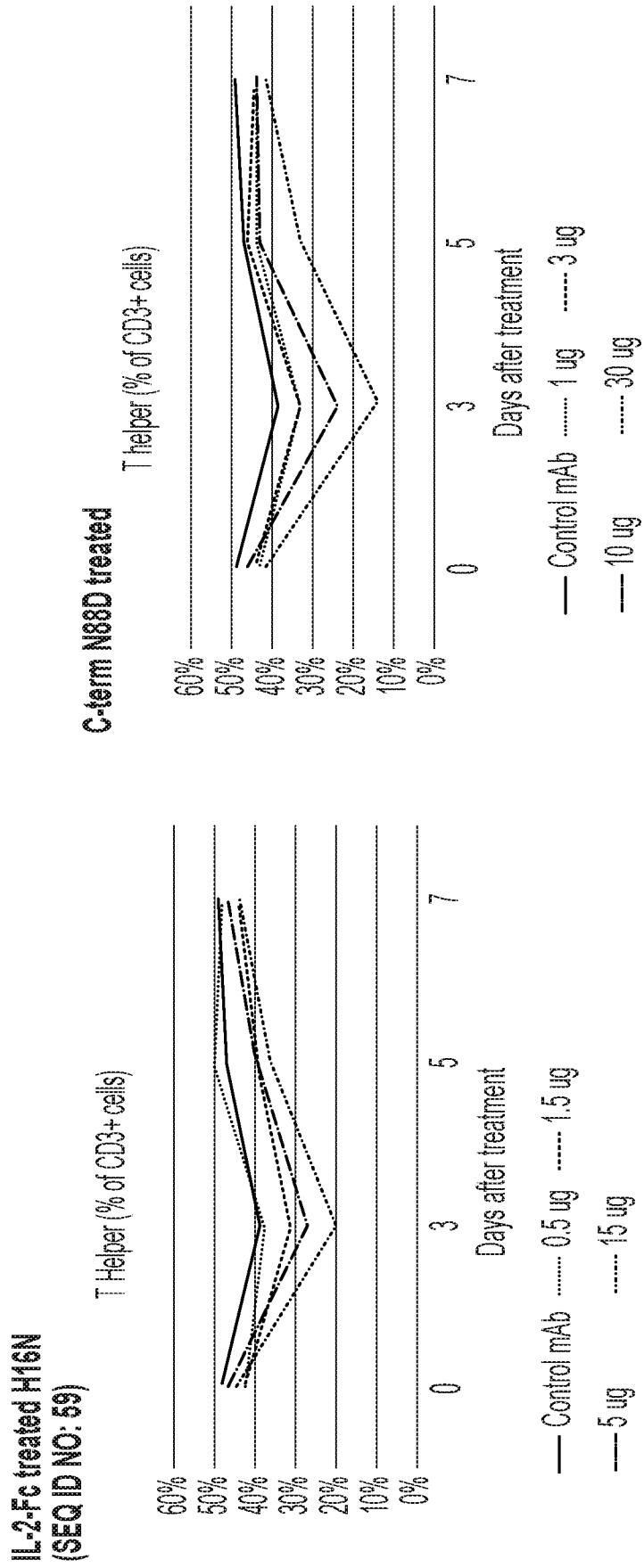


FIG. 13A

FIG. 13B

**Comparison of individual mice
(Highest dose of each molecule)**

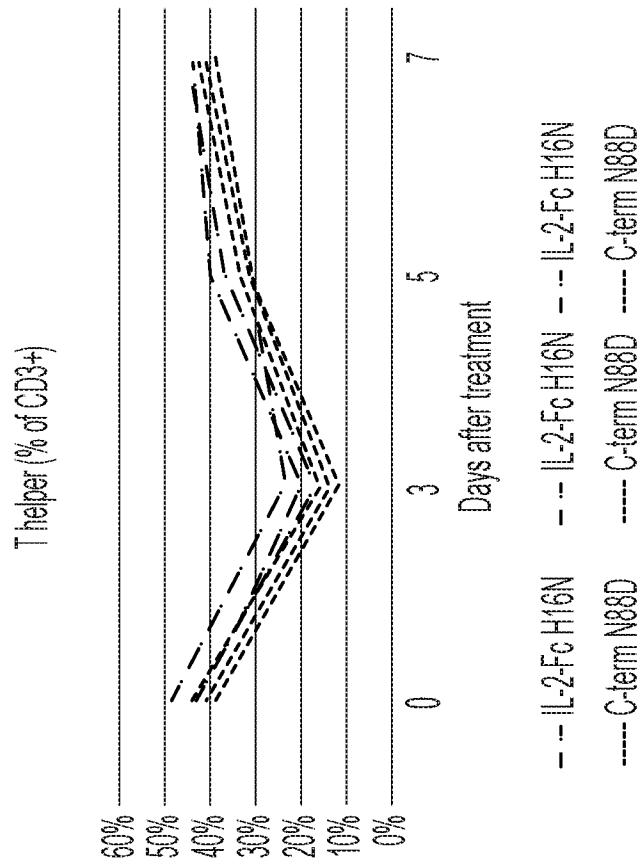


FIG. 13C

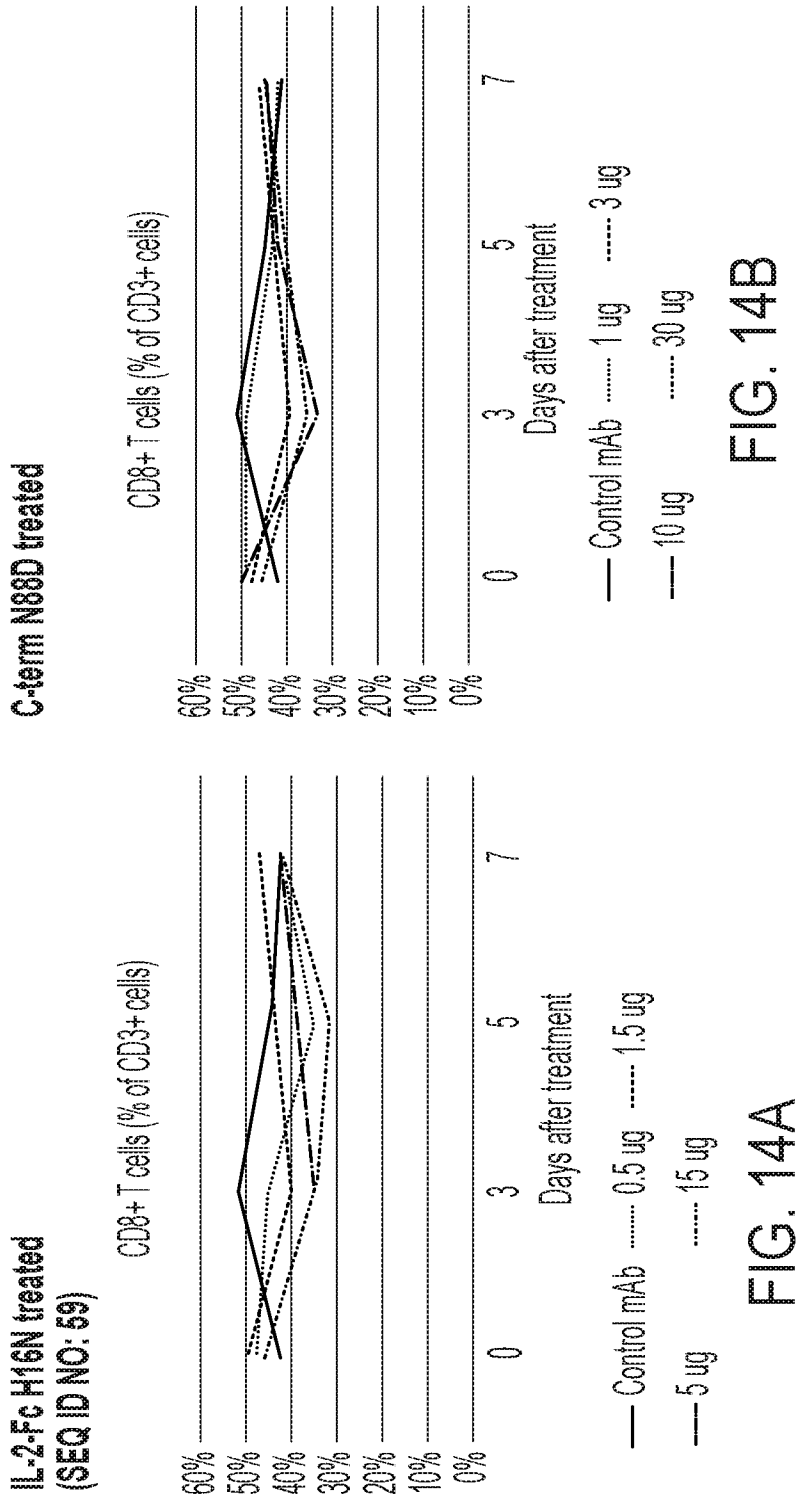


FIG. 14A

FIG. 14B

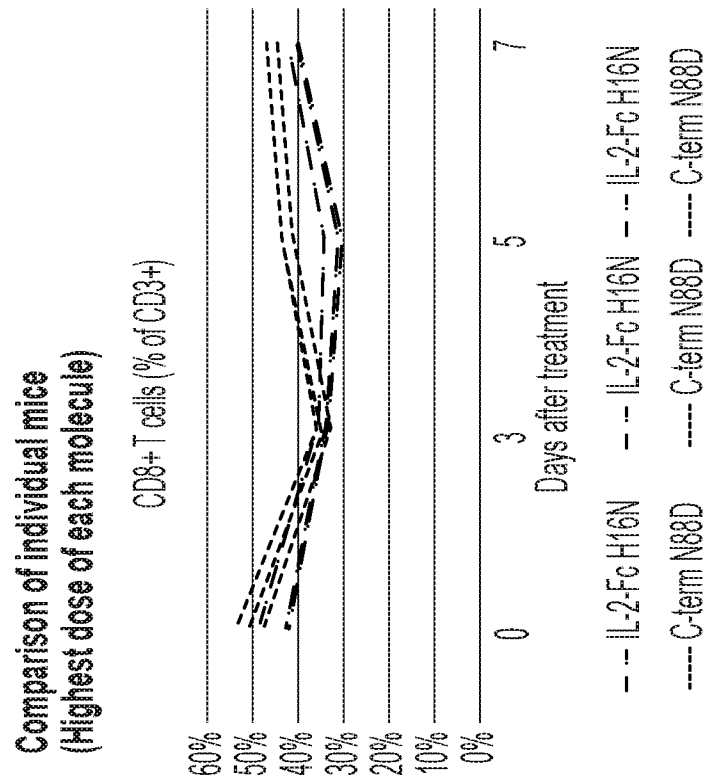


FIG. 14C

**IL-2-Fc H16N treated
(SEQ ID NO: 59)**

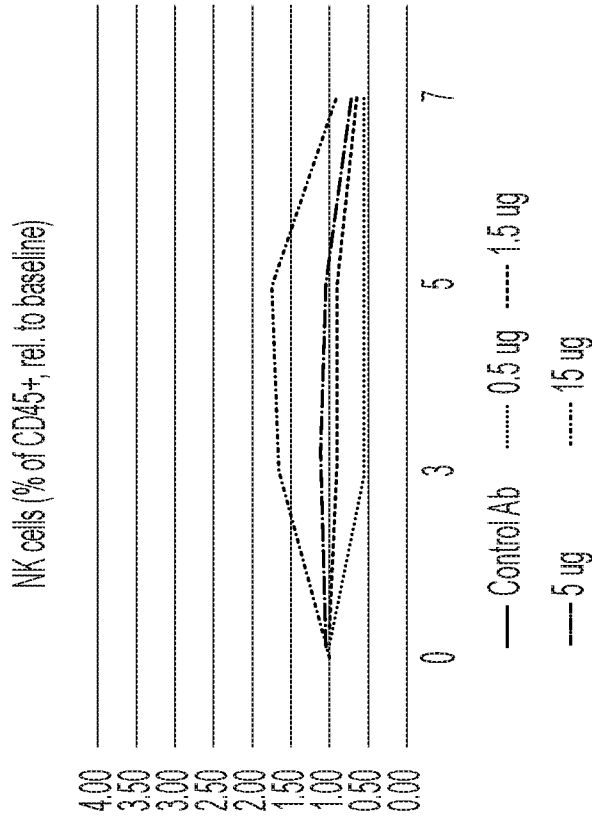


FIG. 15A

C-term N88D treated

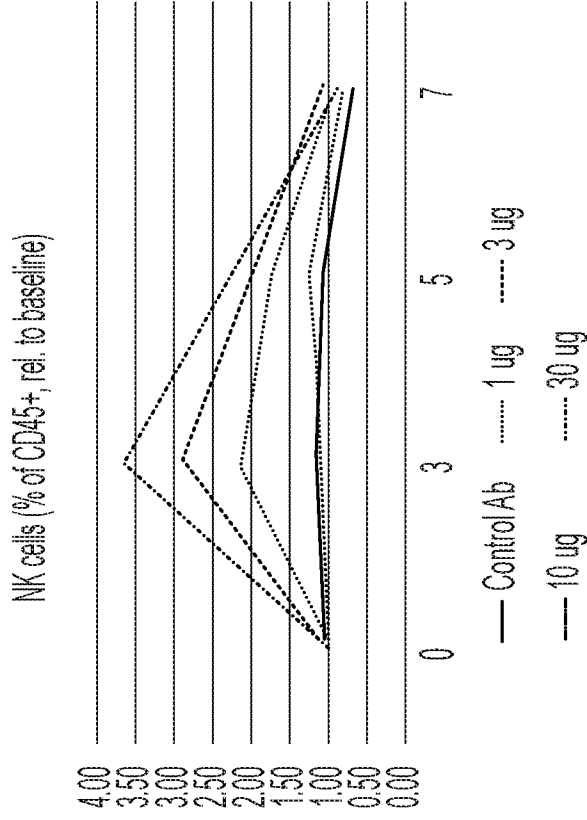


FIG. 15B

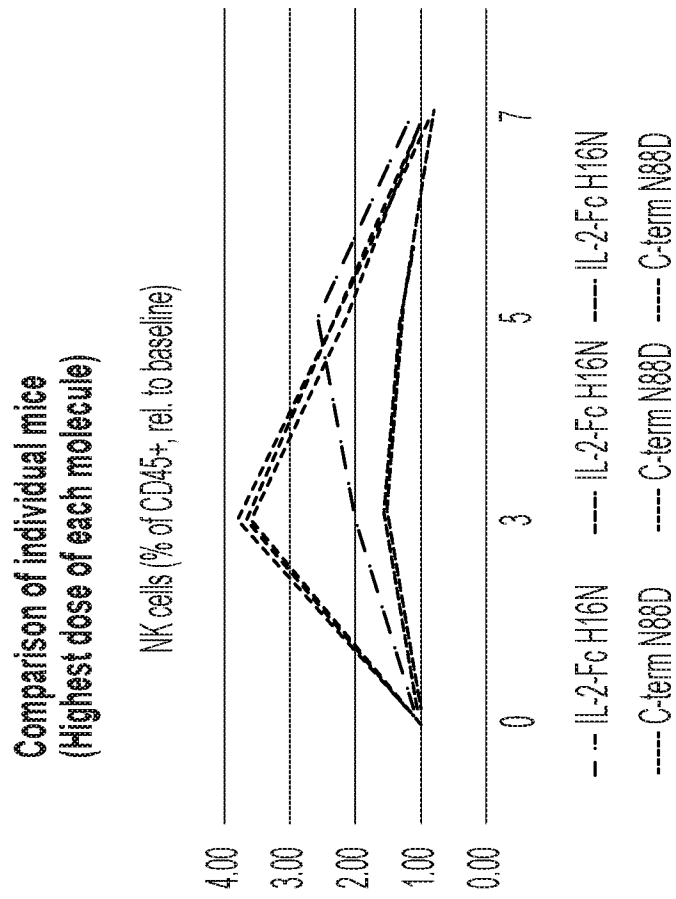


FIG. 15C

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IL2-Fc Wild-type

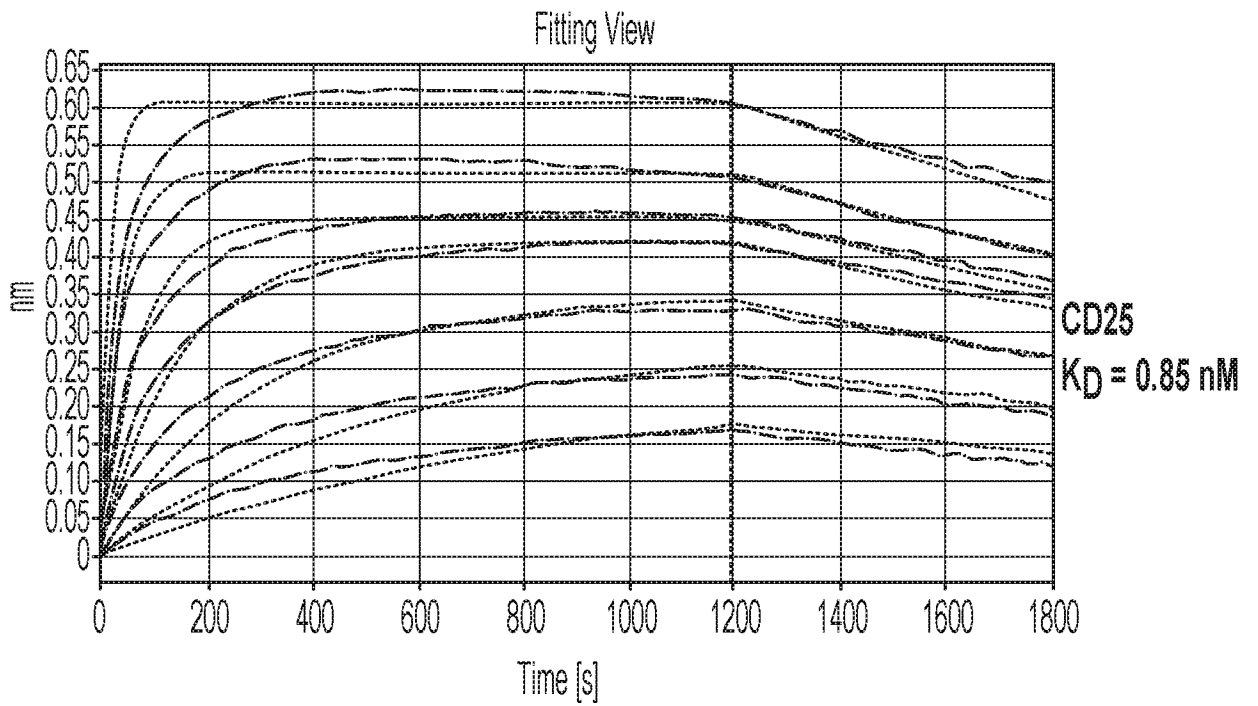
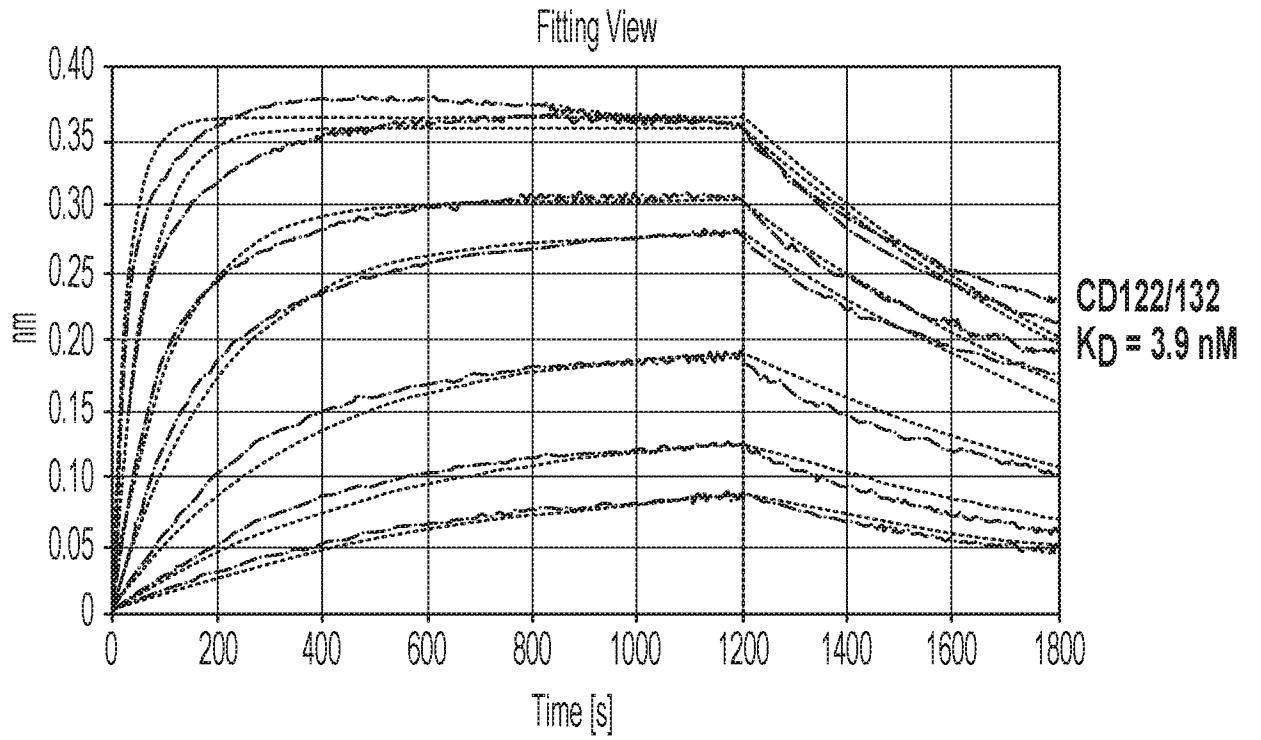
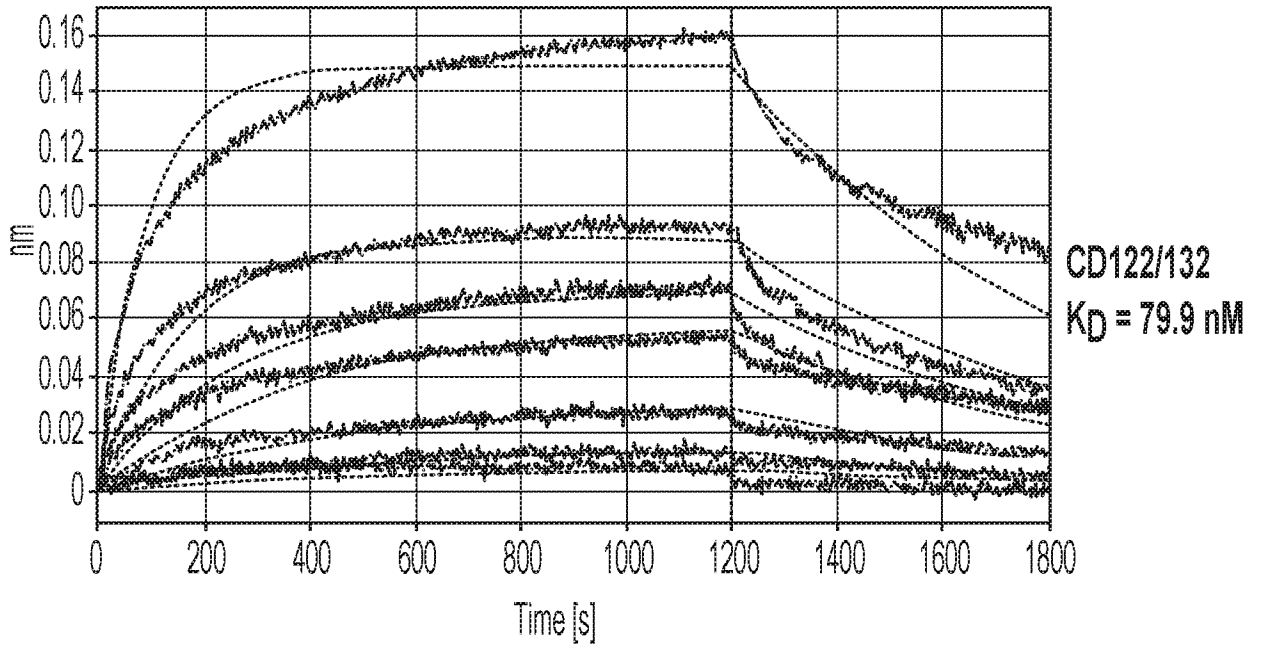


FIG. 16A

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IL2-Fc Inactive
Fitting View



Fitting View

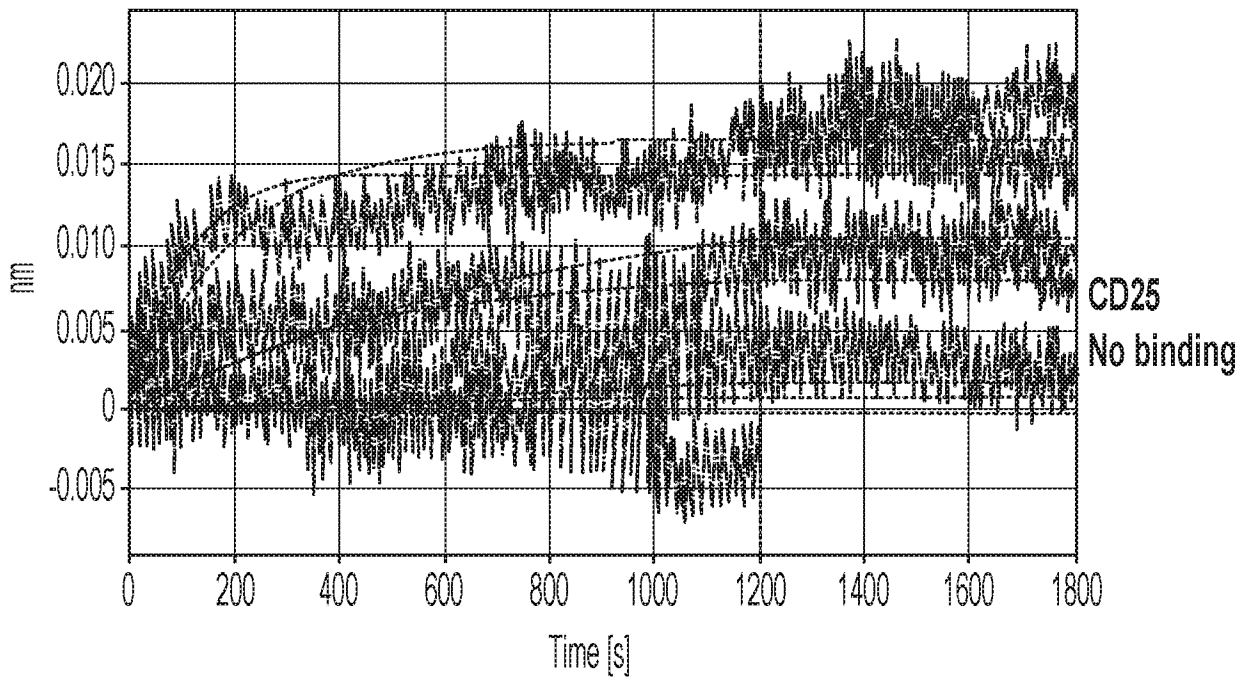


FIG. 16B

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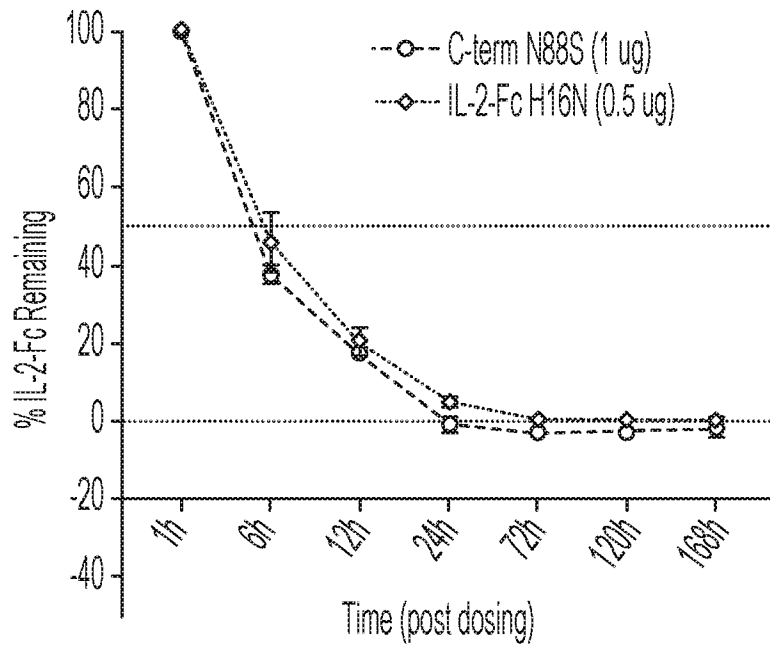


FIG. 17A

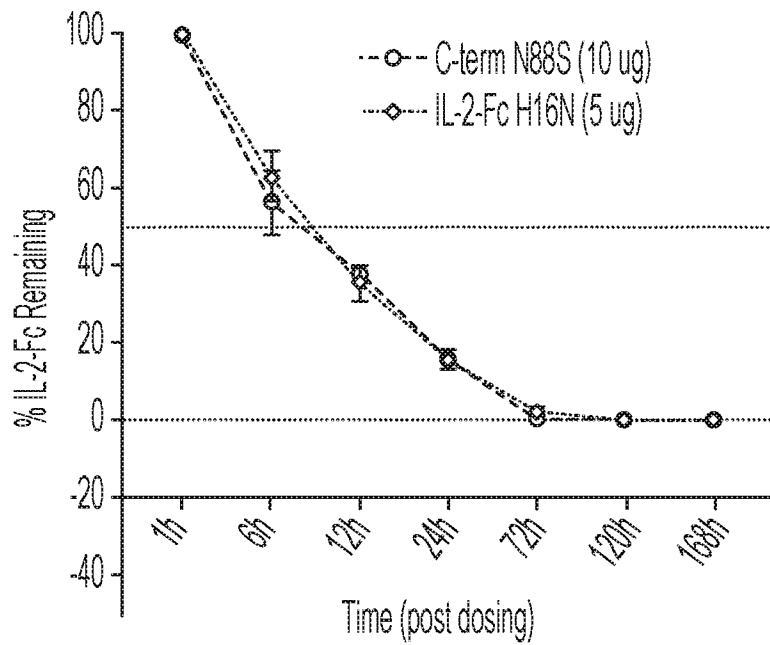


FIG. 17B

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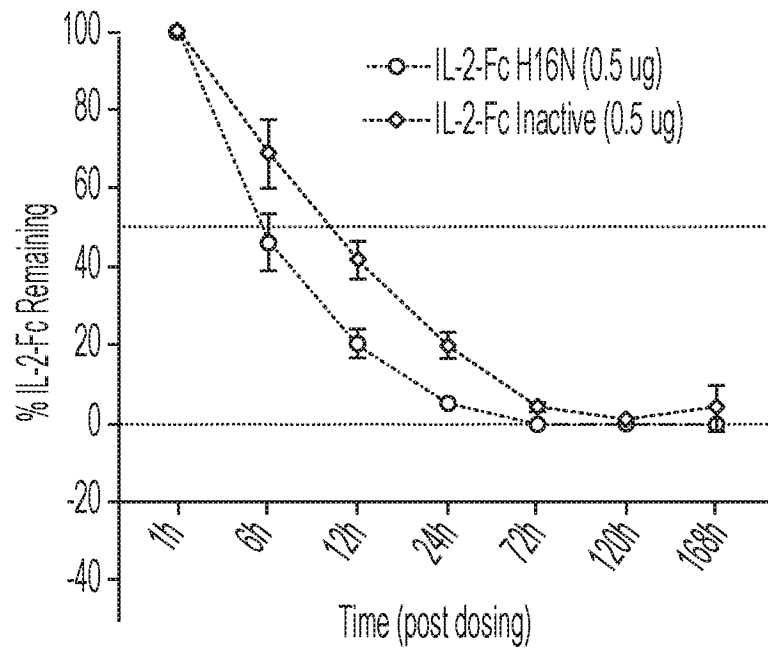


FIG. 17C

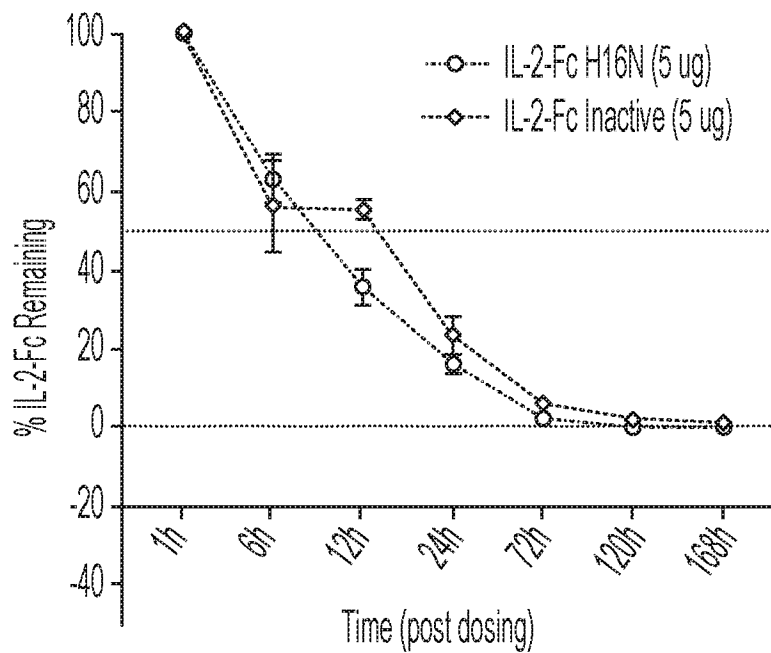


FIG. 17D

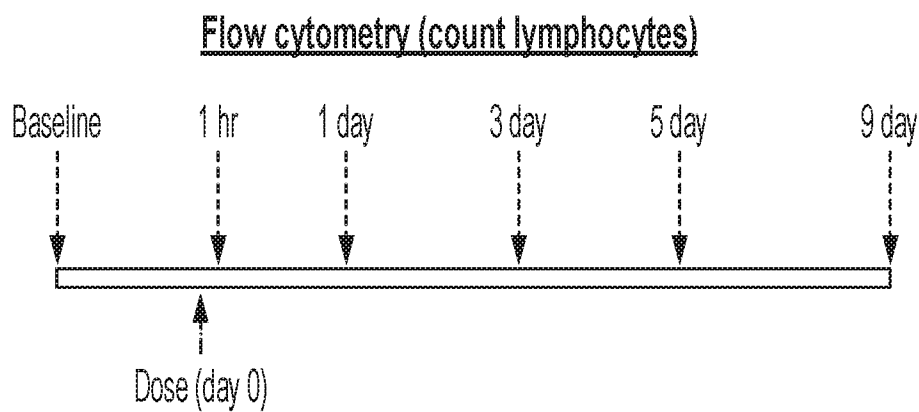


FIG. 18A

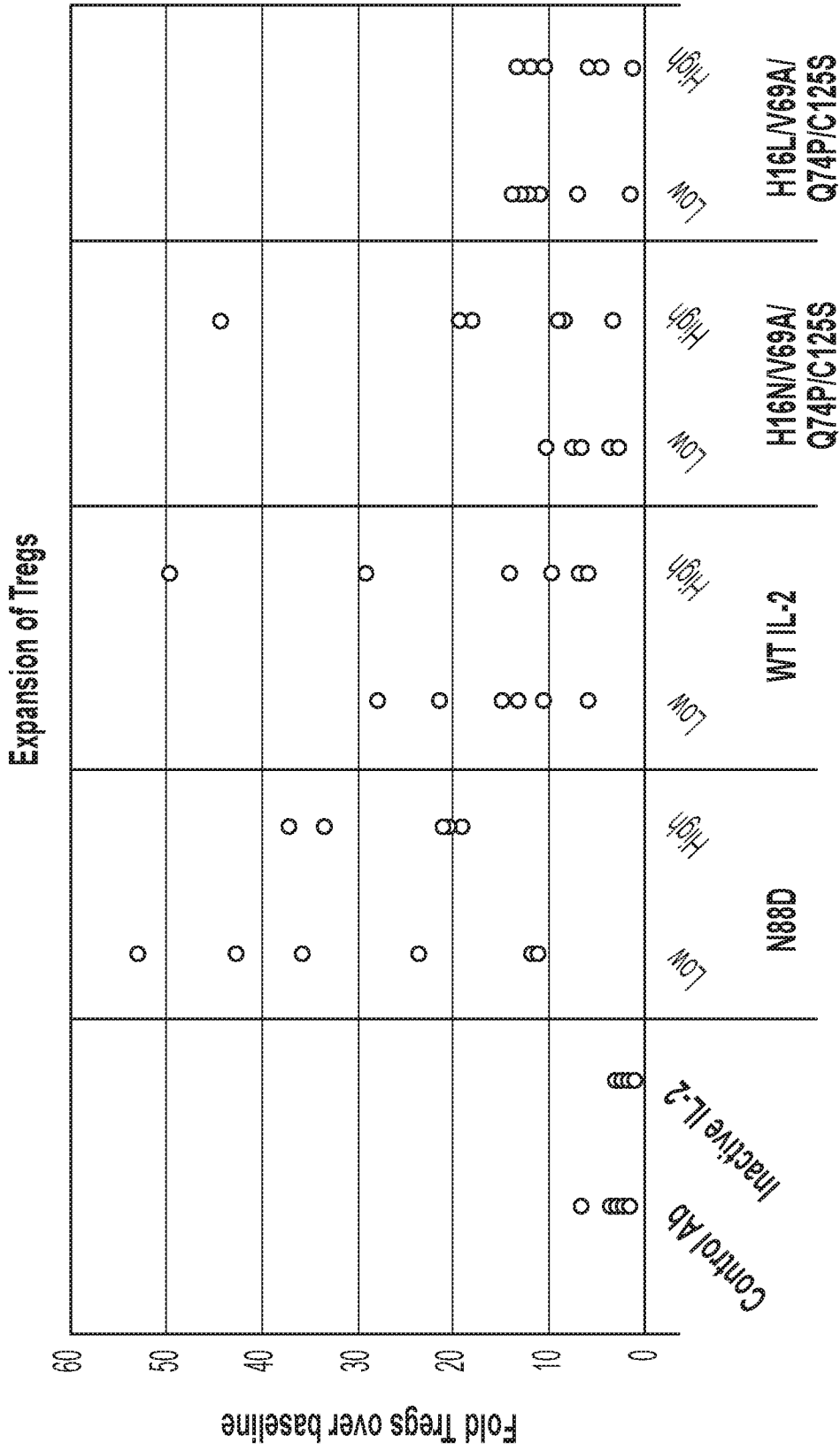


FIG. 18B

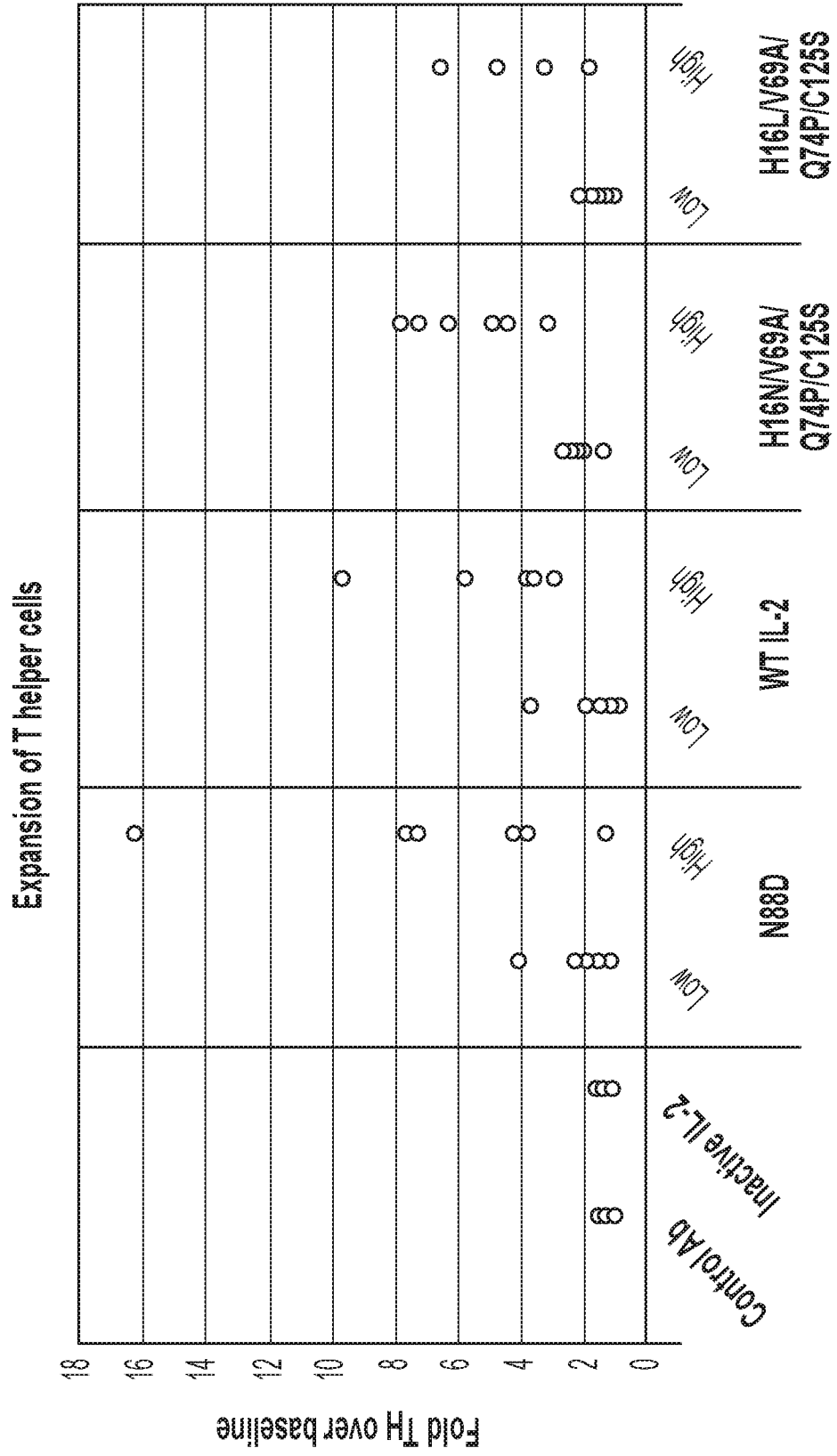


FIG. 18C

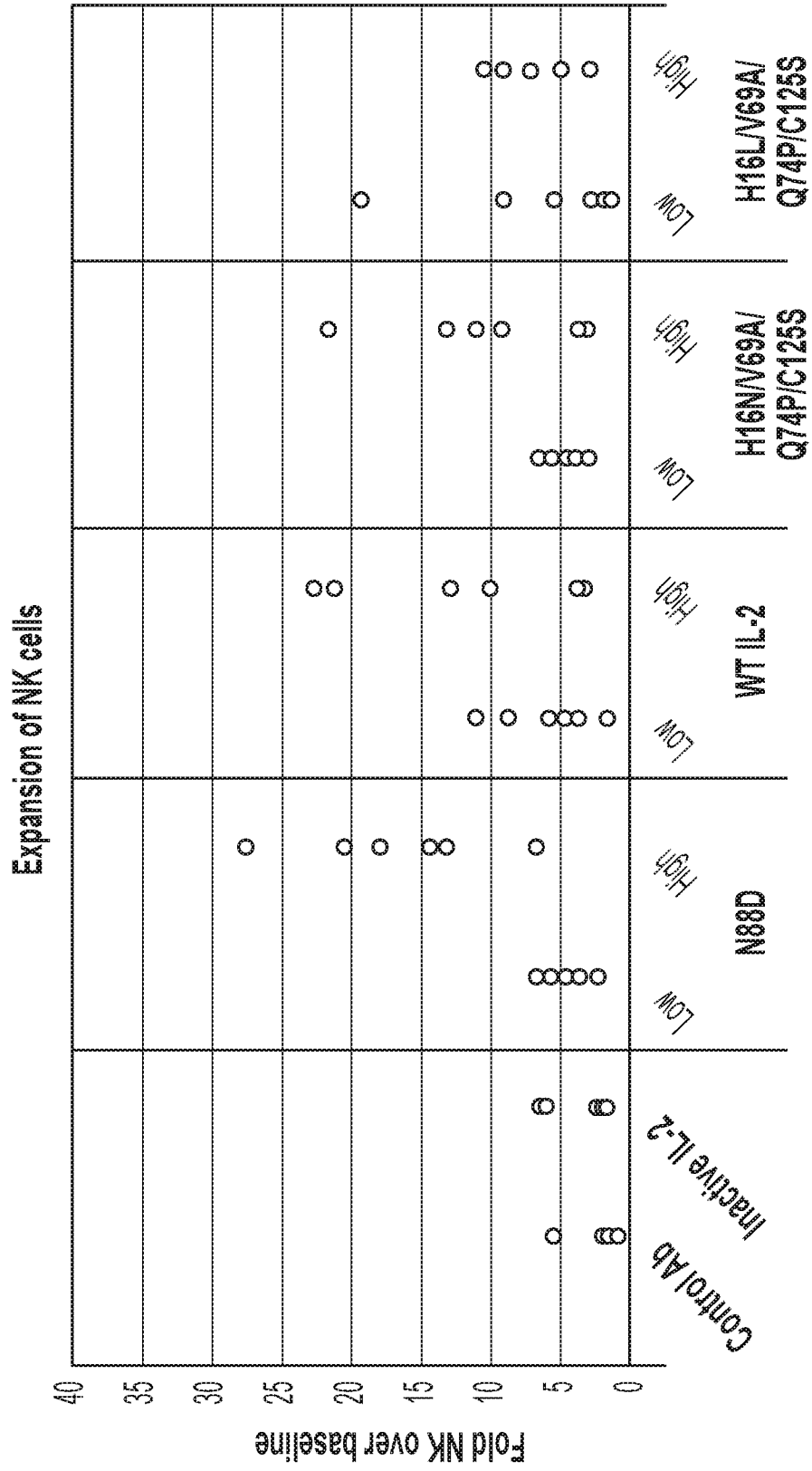


FIG. 18D

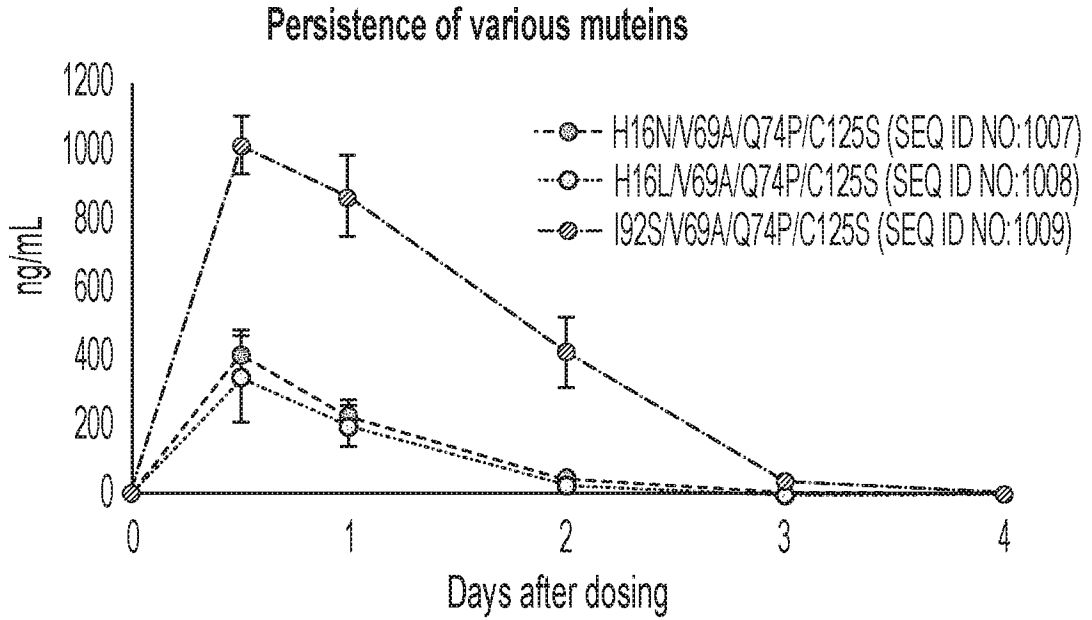


FIG. 19A

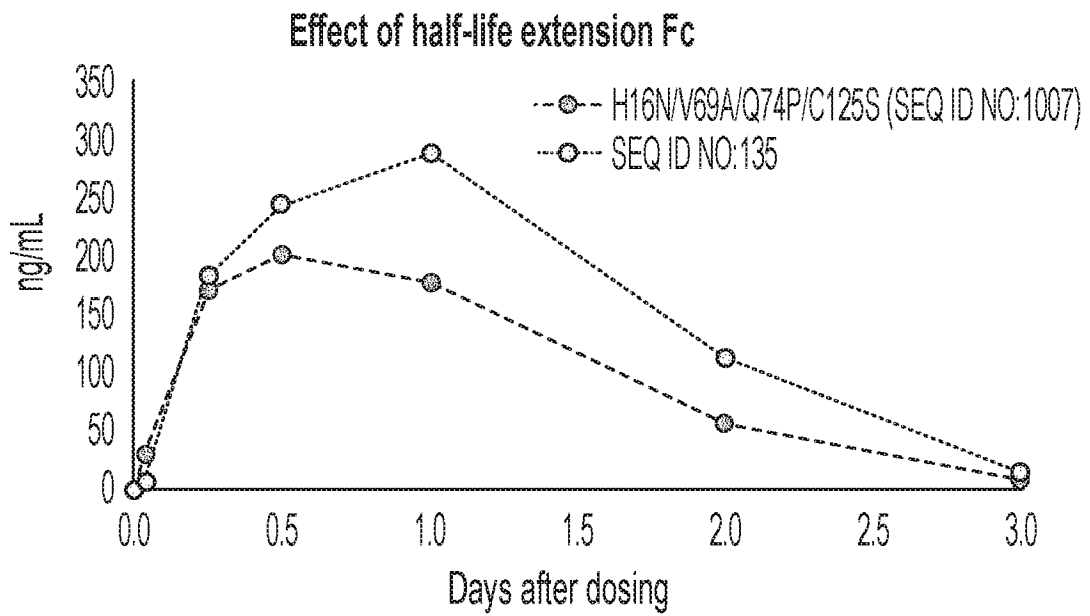


FIG. 19B

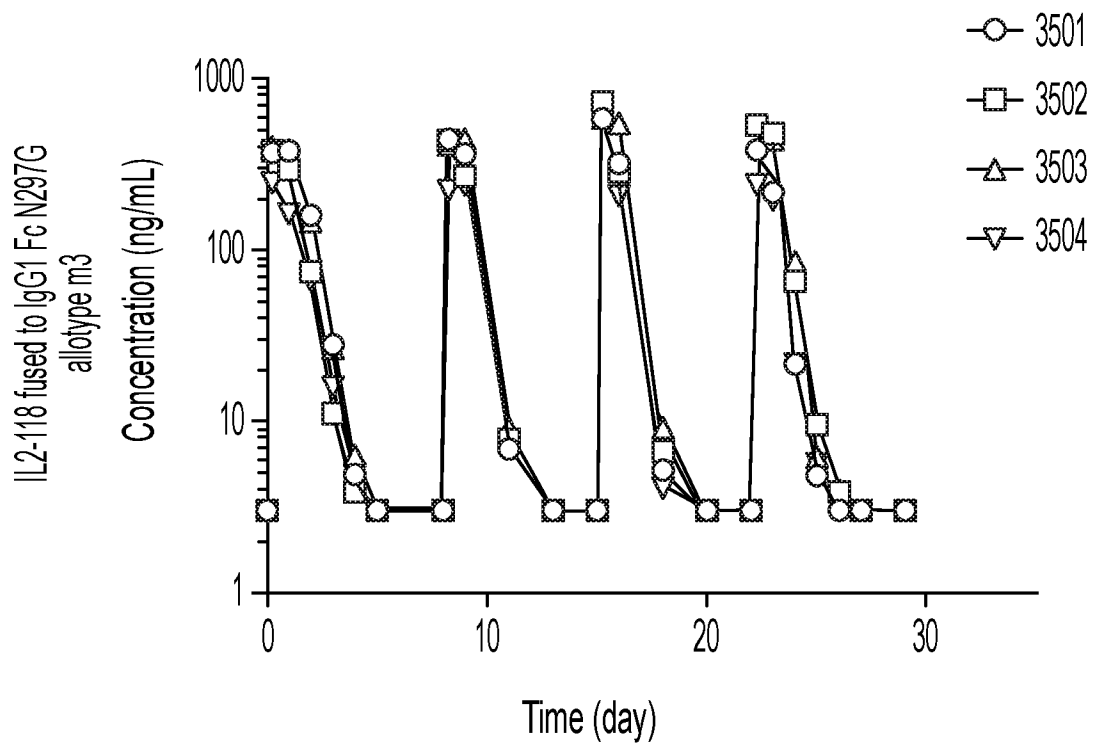


FIG. 20

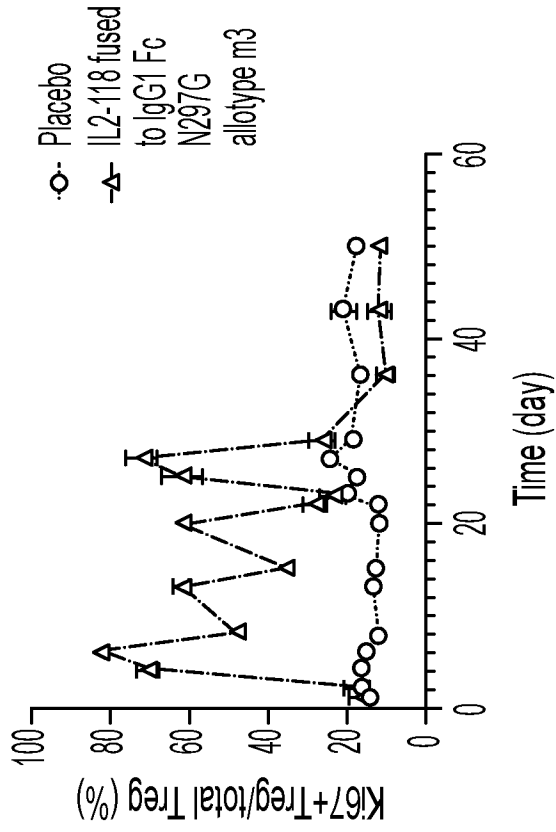


FIG. 21B

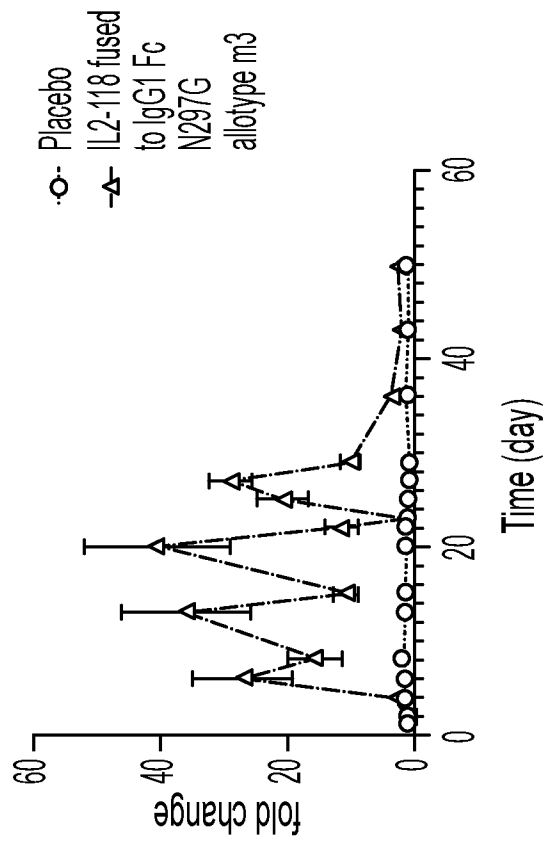


FIG. 21A

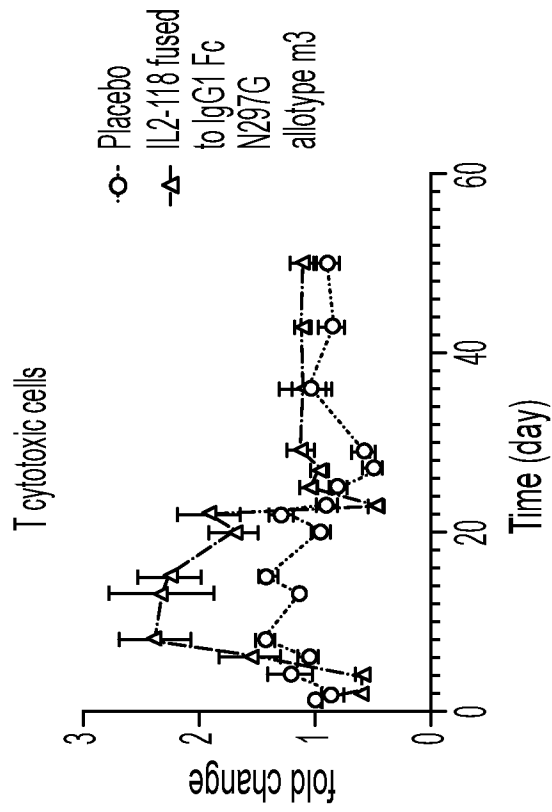


FIG. 22B

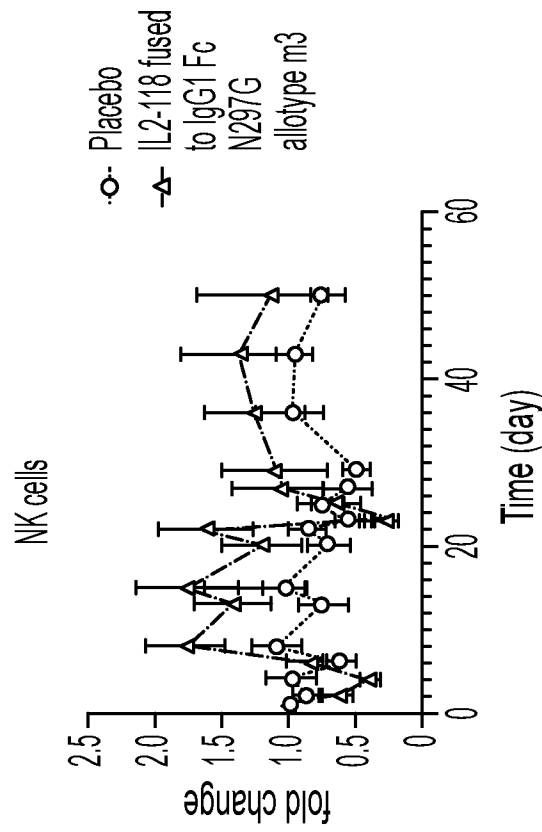


FIG. 22A

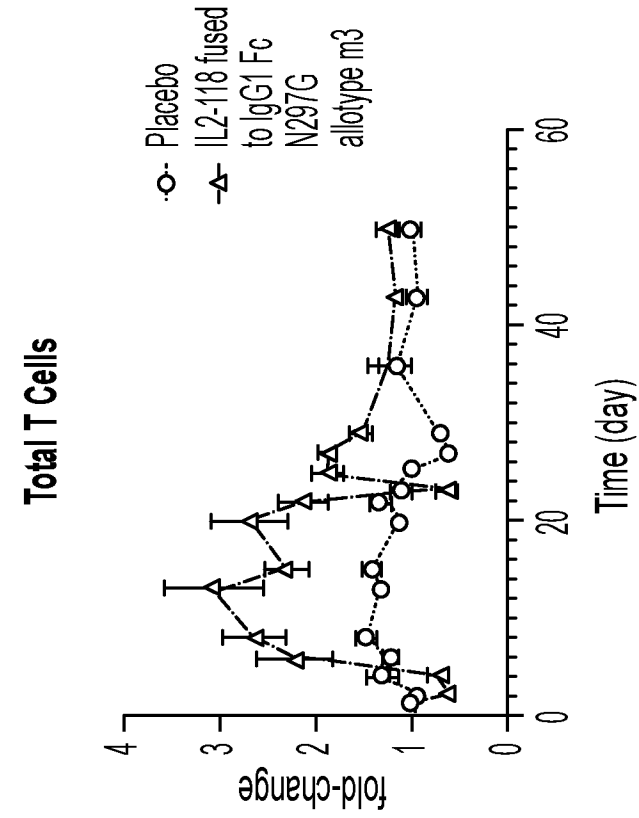


FIG. 22D

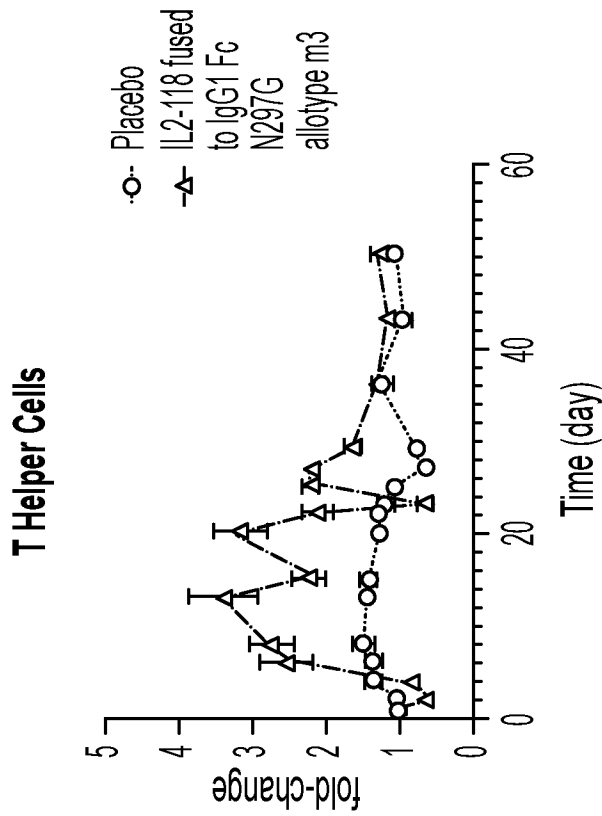


FIG. 22C

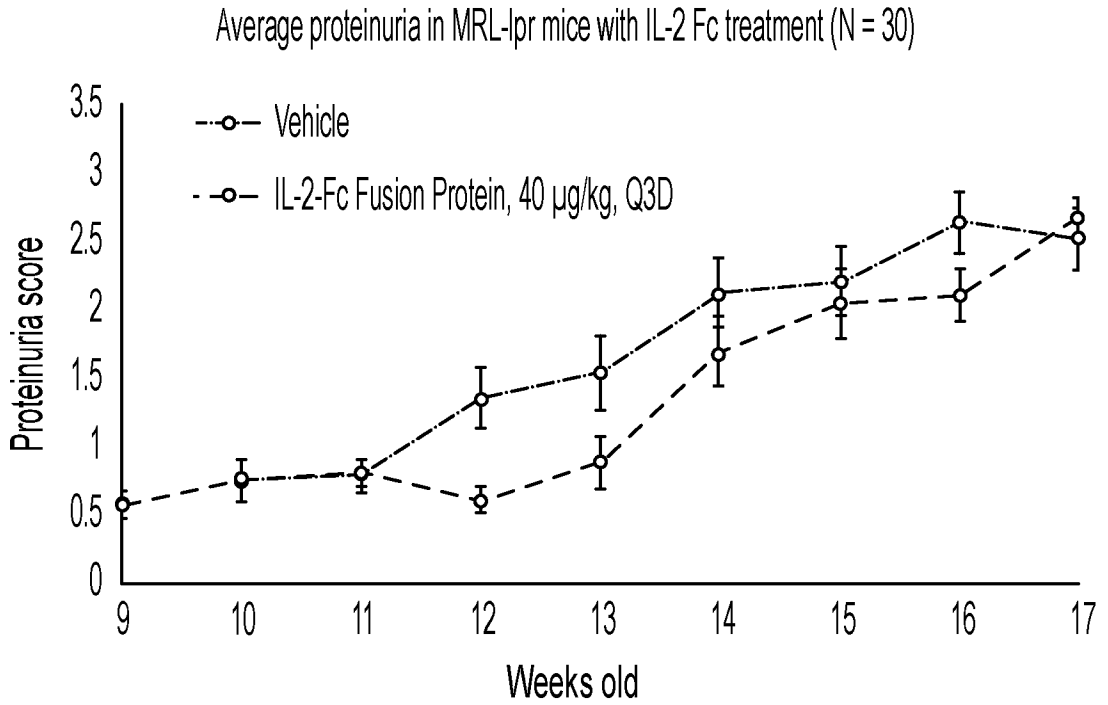


FIG. 23A

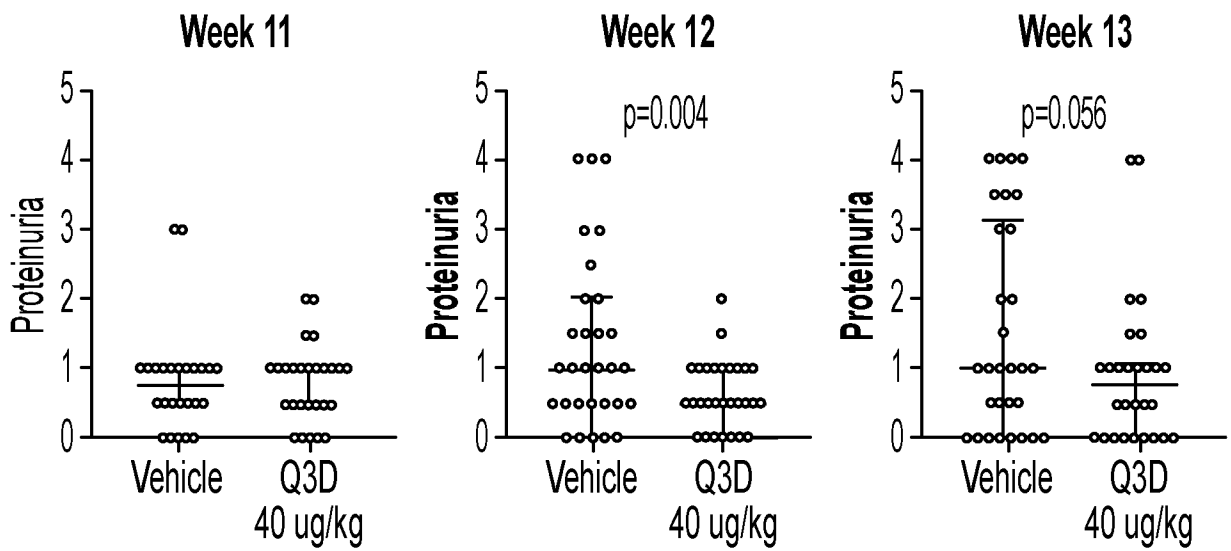


FIG. 23B

