	eg e	g eg	eg e	g e g	е	g	
HCoV-NL63-HR1P	AASFNKA <mark>I</mark> N <mark>N</mark> IVAS <mark>F</mark>	S <mark>SVNDAITQ</mark> T.	AEA <mark>IHT</mark> VTIA <mark>L</mark> N	I <mark>K</mark> IQDVVNQ	QGSALN	<mark>H</mark> LTSQ	
HCoV-229E-HR1P	AASFNKAMTNIVDAF	T <mark>GVNDAITQ</mark> T:	SQA <mark>LQT</mark> VATA <mark>L</mark> N	I <mark>K</mark> IQDVVNQ	QGNS <mark>L</mark> N	<mark>H</mark> LTSQ	
HCoV-OC43-HR1P	ANAFNNALDAIQEGF	D <mark>A</mark> T	NSALV	KIQAVVNAI	DAEALN	NLLQQ	
MERS-CoV-HR1P ANKFNQALGAMQ		T T T	NEAFF	KVQDAVNNI	NAQALS	K LASE	
SARS-CoV-HR1P	ANQFNKAISQIQESLTTTSTALGKLQDVVNQNAQALNTLVKQ						
SARS-CoV-2-HR1P	ANQFNSA <mark>I</mark> G <mark>K</mark> IQDS <mark>L</mark>	S <mark>S</mark> T	ASALO	KLQDVVNQI	NAQALN	TLVKQ	

	C1	FP	HR1		2	ТМ	СР
SP	S1		пкі	HF		1 171	vг
SP	S⊥ S1 subunit	S2 subunit				1 191	UF
SP					×	1 141	OF
SP				a d a	d		G
HCoV-NL63-HR2P	S1 subunit	S2 subunit	t d a d	a d a	d		Gr
	S1 subunit	S2 subuni a d a ELKQLEAKTA:	d a d SLFQTTVELQGI	a d a IDQINSTY	d 7DLKLL		Gr
HCoV-NL63-HR2P	S1 subunit	S2 subuni a d a ELKQLEAKTAS EISTLENKSAJ	d a d SLFQTTVELQGI ELNYTVQKLQTI	a d a IDQINSTY IDNINSTI	d /DLKLL /DLKWL		Gr
HCoV-NL63-HR2P HCoV-229E-HR2P	S1 subunit d DLTPFNLTYLNLSS VVEQYNQTILNLTS	S2 subuni a d a ELKQLEAKTAS EISTLENKSAJ EMN	d a d SLFQTTVELQGI ELNYTVQKLQTI RLQEA	a d a IDQINSTY IDNINSTI IKVLNQSYI	d /DLKLL /DLKWL INLKDI		Gr
HCoV-NL63-HR2P HCoV-229E-HR2P HCoV-OC43-HR2P	S1 subunit d DLTPFNLTYLNLSS VVEQYNQTILNLTS SLDYINVTFLDLQD	S2 subuni a d a ELKQLEAKTA: EISTLENKSAI EMN EML	d a d SLFQTTVELQGI ELNYTVQKLQTI 	a d a IDQINSTY IDNINSTL IKVLNQSY VKALNESY	d 7DLKLL 7DLKWL INLKDI IDLKEL		Gr

Supplementary information, Fig. S2 Schematic representation of HCoV S protein and the sequences of the designed peptides (HR1Ps and HR2Ps).