

Neuropeptide precursors and neuropeptides in the sea cucumber *Apostichopus japonicus*: a genomic, transcriptomic and proteomic analysis

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Supplementary Figure 2. Mass spectra (MS/MS) of peptides detected in a digest of *A. japonicus* (streamer) muscle tissue that was reduced and alkylated without tryptic digestion. The b series of peptide fragment ions are shown in blue, the y series in red and odd-numbered b and y peptide fragment ions in red/blue. The amino acid sequence identified in the mass spectra is highlighted at the bottom of the figure, gl at the N-terminus represents pyroGlutamate (pGlu), ac at the C-terminus represents an acetyl group and Ox represents methionine oxidation. The horizontal axis represents m/z. **A.** Peptide pGlu-PGKPAKATL derived from A/TREP. **B.** Peptide GRQPNDSVAHTRFLPamide derived from AJ07P. **C.** Peptide YFQNSMRLVSRILGamide, FGRQSDVPLVYSLSamide and FQNSMDEPLATYDGRamide derived from AJ15G/MF0P. **D.** Peptide ANRYNALE derived from AJ45P. **E.** Peptide APLADDEAIQKDE derived from Aqg23. **F.** Peptide QGDHDEDEKLEELSL and GGRLLSYAGPRMFWLRLN derived from AqG19 precursor. **G.** Peptide SPTVGLASALLamide derived from AqWYQPS. **H.** Peptide APLAARPPSG derived from APLAARPPSG precursor. **I.** Peptide MPANPAPYFSRGTYYVPTREIN derived from A/MPANPAPYFSRGTYYVPTREIN precursor.

