



**Supplemental Fig. S5. Experimental evidences of sORFs translation.** The comparison of score and posterior error probability (PEP) values for PSM supporting identification of sORF-encoded peptides and protein sequences: **A, B** – Andromeda scores/PEPs for PSMs mapping to annotated protein sequences, identified sORFs (“all sORFs”, PSM FDR 1%), high confidence sORFs (“selected sORFs”, PSM FDR1%,  $\text{PEP} \leq 0.01$ , score  $\geq 30$ ). **C** – Comparison of Andromeda score for high confidence sORFs from “peptidomic” and “proteomic” datasets; **D** – Distribution of high confidence sORF lengths in “peptidomic” and “proteomic” datasets.