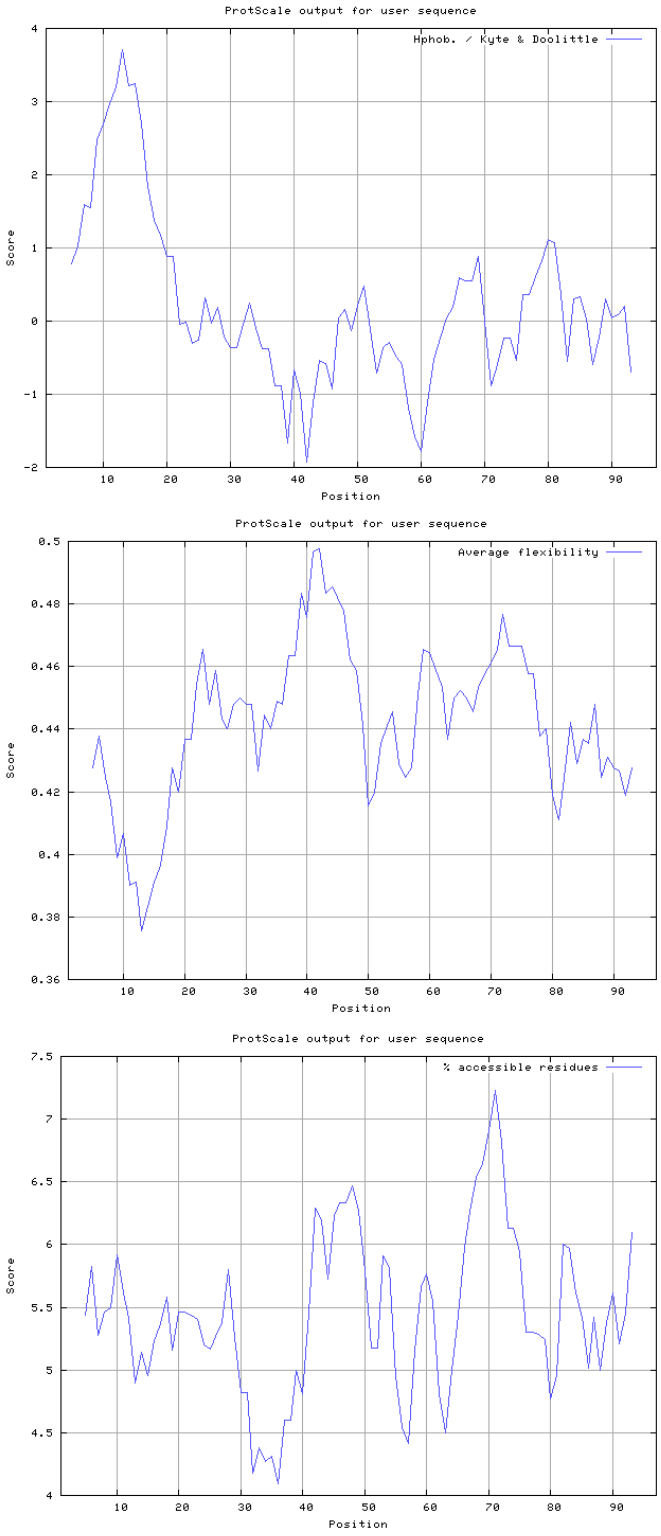
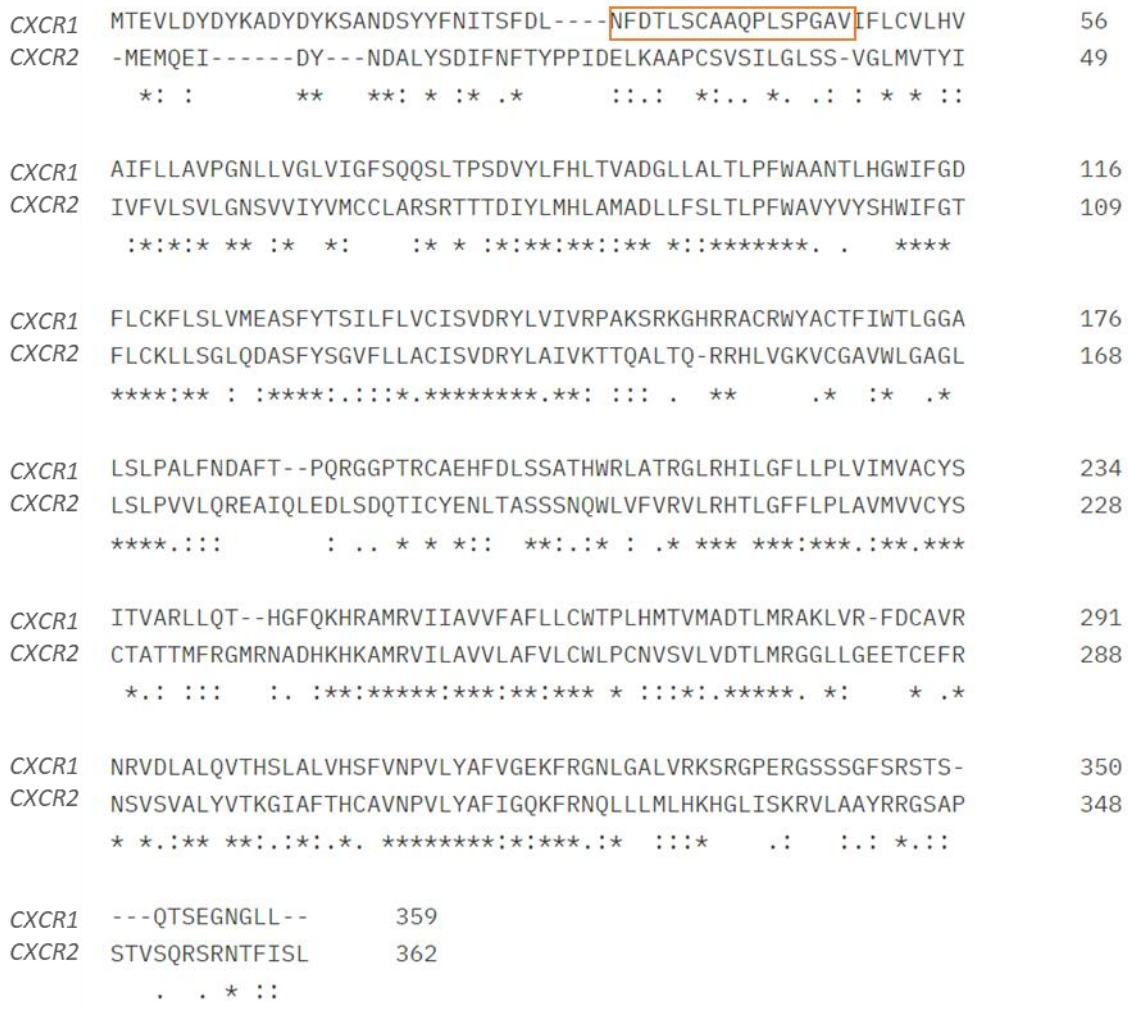
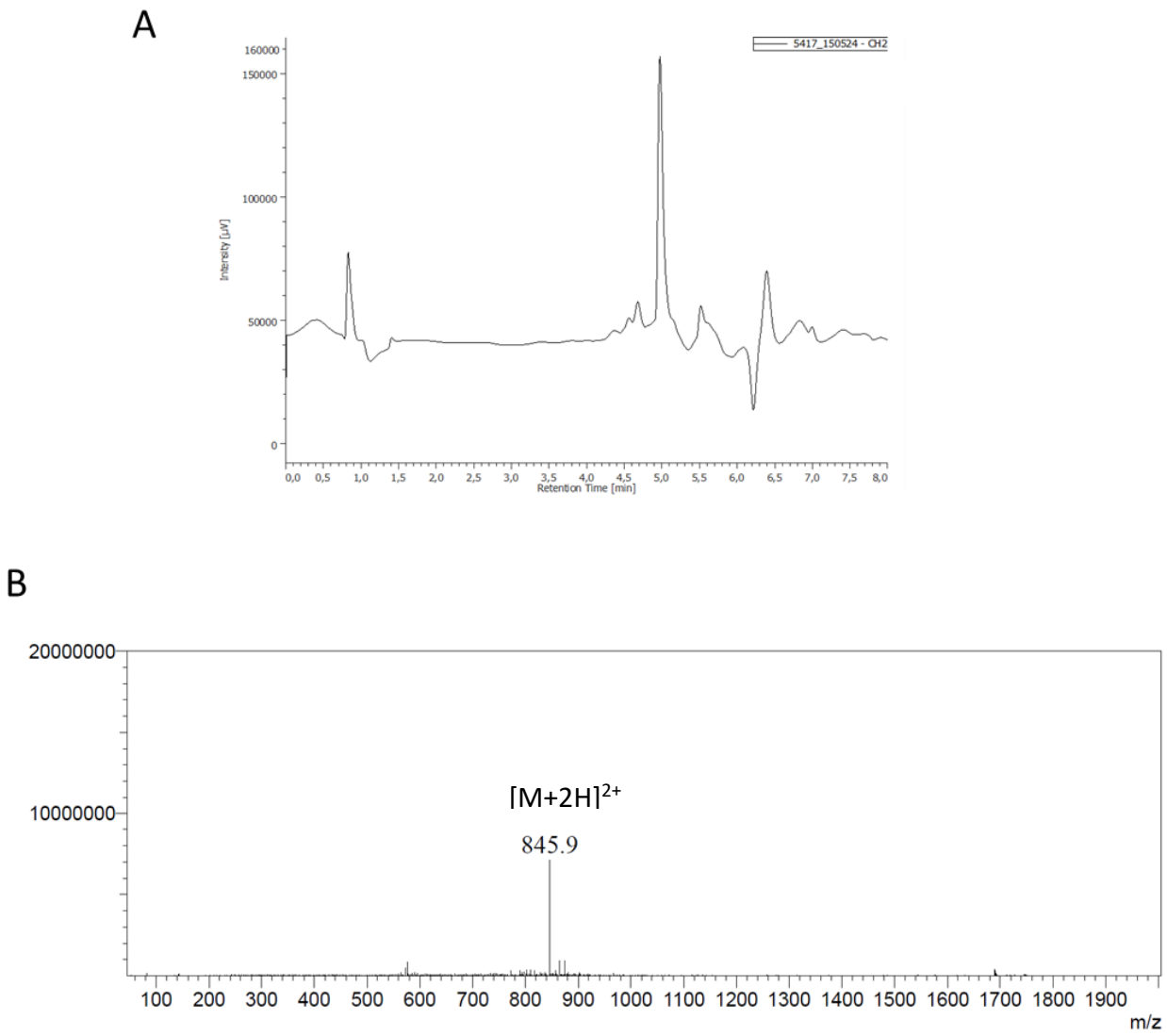


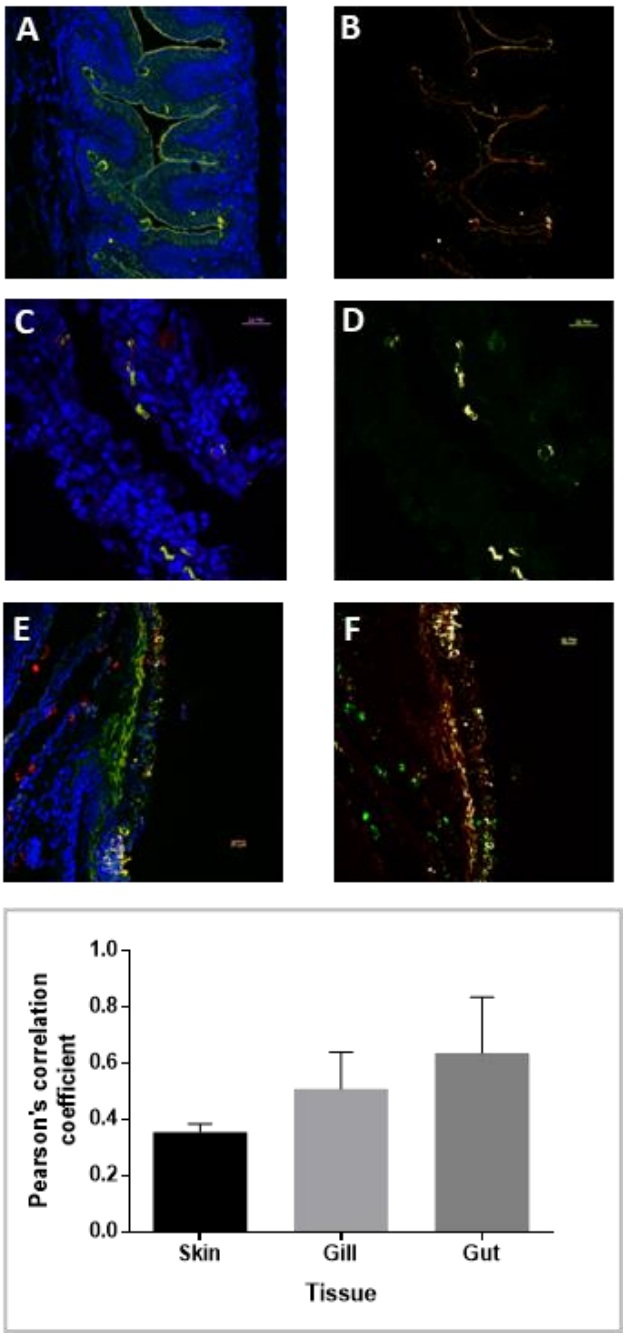
Supplementary figure S1. Hydrophobicity, accessibility and flexibility profiles for omCXCR1 protein.



Supplementary figure S2. Alignment of *Oncorhynchus mykiss* CXCR1 and CXCR2 amino acids sequences. The alignment of omCXCR1 (GenBank accession number Q90ZZ2) and omCXCR2 (GenBank accession number CDK69051.1) amino acid sequences was performed using ClustalW. Conserved amino acids are shown with asterisk (*). The peptide epitope (omCXCR1*sp*) is shown in an orange box.



Supplementary figure S3. Characterization of synthetic scramble peptide. A) reversed-phase HPLC (RP-HPLC). B) mass spectrometry spectrum (ESI-MS) of synthetic peptide showing the molecular ion $[M+2]^{2+}$.



Supplementary figure S4. Colocalization analysis of fluorescent probes in selected tissues. Pearson's correlation was used to assess the colocalization of two specific fluorescent probes, omCXCR1 (Alexa fluor 568) and omIL-8 (Alexa fluor 635), within regions of interest in fish larvae skin, gill, and gut samples. *Bar* 20µm.