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Supporting information for article:

Crystallization and preliminary X-ray diffraction analysis of a single variable domain of immunoglobulin superfamily in amphioxus, *Amphi*-IgSF-V

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S1. Analysis of the *Amphi*-IgSF-V sequence

Amino-acid sequence of five IgSF V domains from amphioxus *Amphi*-IgSF-V, amphioxus VCBP, catfish novel immune-type receptor (NITR), opossum TCR delta chain and human immunoglobulin light chain were aligned using the *ClustalW2* program (Fig. S1). Identical amino acids are shown as white text on a red background, while similar amino acids are shown as red text on a white background, and eight highly conserved residues (Chothia *et al*., 1998) of the IgSF V domain are highlighted by green numbers marked under residues. Identities between the *Amphi*-IgSF-V amino acid sequence and other sequences are shown at the ends of the sequences. Aligned sequences and corresponding GenBank Accession Nos. are as follows: amphioxus *Amphi*-IgSF-V, XP_002587836; amphioxus VCBP, AAN62850; catfish NITR, NP_001187262; opossum TCR delta chain, ACB56456; human immunoglobulin light chain, AAC26733.

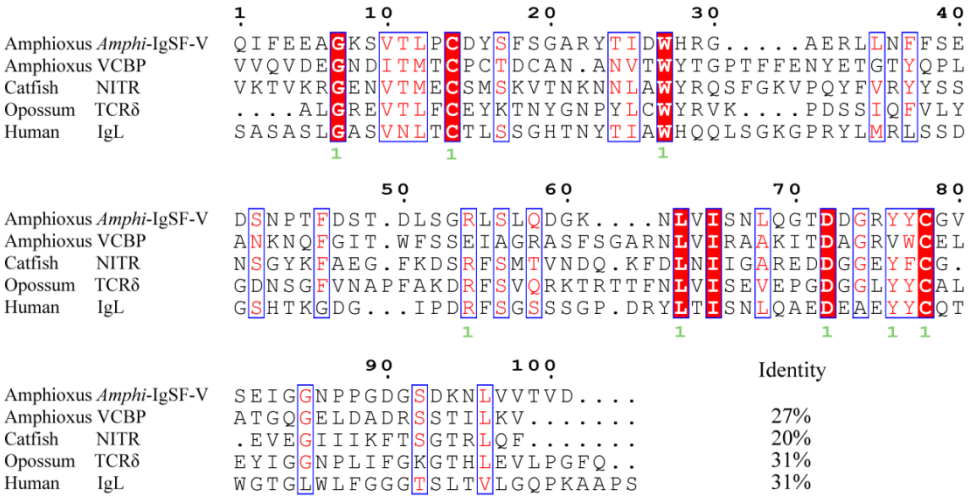

Figure S1 Amino-acid sequence alignment of the *Amphi*-IgSF-V with V domains of immune-related molecules obtained from amphioxus, catfish, opossum and human using the *ClustalW2* program. The GenBank accession numbers are as follows: amphioxus *Amphi*-IgSF-V, XP_002587836; amphioxus VCBP, AAN62850; catfish NITR, NP_001187262; opossum TCRδ, ACB56456; and human IgL, AAC26733. The sequence identities between the *Amphi*-IgSF-V and others are listed at the end of the sequences. Identical amino-acids are shown in white text on a red

background, while similar amino acids are shown in red. Eight conserved residues (Gly_{7}, Cys_{14}, Trp_{27}, Arg_{54}, Leu_{63}, Asp_{72}, Tyr_{76} and Cys_{78}.) in the IgSF V domains are highlighted by green numbers marked under residues. VCBP, variable region-containing chitin-binding protein; NITR, novel immune-type receptor; TCRδ, T-cell receptor delta chain; IgL, immunoglobulin light chain.