Figure S4

```
ct-h10R1    V-IIFFAFVLLLSGALAYCLALQLYVRRRKKLPSVLLFKKPSPFIFISQRPSPETQDTIH
ct-zCRFB7   IGVIGVVGVITL-----FMLFVCFFLRRPGKMPAVLKLAVNGWL------PMNVGQTEVE
            : :*.. *: *     : * ::::** *:*:** :  .:     *    * :.


ct-h10R1    PLDEEAFL----KVSPELKNLD---------LHGSTDSGFG----STKPSLQTEEPQ
ct-zCRFB7   SVTQKGWLLNSNKIAEKTKAFDEIEELSEDEKERRESTDSGVSIGQQDSIKNRPQREEDS
            .: ::..:*   *:: : * :*         : *****.. * *  * **.


ct-h10R1    FLLPDPHPQADRTLGNR---EPPVL--GDSCSSGSSNSTDSGICLQEPSLSPSTGPTWEQ
ct-zCRFB7   GCGSLTGTEDSLSSGRRSLEELPFLDGGGNSSSVEGTREDSGLGIQTQDISDKPKPM---
            . . ..:. : *.*   * * *  *...** ...  ***: :*  .:* .. *


ct-h10R1    QVGSNSRGQDDSGIDLVQNSEGRAGDTQGGSALGHHSPPEPEVPGEEDPAAVAFQGYLR-
ct-zCRFB7   -------HDDLLSEIVVIGDGYRSQSPSAEA-----ETETTIQCDEDANMVSRTNGYRS
                   :**  ::* .:* .:: ...*    .*. : :**. *: . *


ct-h10R1    -QTRCAEEKATKTGCLEEESPLTDGLGPKFGRCLVDEAGLHPPALAKGYLKQDPLEMTLA
ct-zCRFB7   GQVTCLCSDSETCMWCKTRKHLTDCDSFSHKQTVNDND-------RSSYLKKSPLETVNM
            *. * ..:.   : .. ***  . .. : : *:       ..***:.*** .


ct-h10R1    SSGAPTGQWNQPTEEWSLLALSSCSDLGISDWSFAHDLAPLGCVAAPGGLLGSFNSDLVT
ct-zCRFB7   FGLDDLSCHSDKTEESSLF--------------------ITCPLLLKEPYKLD--T
            .    . .: *** **:                    ::.*  *  .:: *  *


ct-h10R1    LPLISSLQSSE----
ct-zCRFB7   LPL--TLGDVELTFT
            *** :*. *
```

Figure S4: Two DSG motifs similar to those found in human IL-10R1 can be identified in the zebrafish ortholog of IL-10R1. Alignment of the cytoplasmic tail of hIL-10R1 (ct-h10R1) and zebrafish CRFB7 (ct-zCRFB7) is done using the online MAFFT program [1]. The alignment is shown in ClustalW format. The '*'s denote identical amino acid residues; ':'s denote conserved amino acid substitutions and '.'s denote semi-conserved amino acid substitutions. The two conserved DSG motifs were highlighted in yellow and blue, respectively.

1. Katoh, K., K. Misawa, K. Kuma, and T. Miyata. 2002. MAFFT: a novel method for rapid multiple sequence alignment based on fast Fourier transform. Nucleic Acids Research 30: 3059-3066.