Figure 14: RGD and KGD containing salivary peptides of *Ixodes.* A) The ixodegrin salivary protein family of *Ixodes scapularis*. B) A RGD and EGD containing peptide. Only predicted mature peptides are shown. Cysteines are marked in reverse black color, RGD, KGD, EGD and TGD domains are marked in green. The symbol * marks peptide identity on the alignments, : and . indicate strong and less strong similarities.

A

```
is-all-979          Y-SSTCERIPCTNNSDCHGPDLCQCRPPRGDDFGYFCSEY
is-all-306          Y-SFTCERIPCTNNSDCHGSDLCQCRPPRGDGFSYFCSEY
IXOPA_51011476      Y-SPTCEGKPCANNTDCKGSNLCQCRPPRGDDWRNFCSEY
IS-18-24-clu190     N-WEQCPYSLCEEDKDCGSIPLCRCFPPRGDLPGKRCVTI
IS-6-12L-11         R-WEQCPDSLCEKDEDCGYLPLCQCLPPRGDLPGKRCVTI
IS-18-24-clu189     QEIDKCLHSLCNTNEDCGDPALCICSPHRGDFPGNWCSER
                         *    *  : **    ** * * ***     *
```

B

```
ISNU-cluster-288    DQQPQVPSSETNGVCSSKQDCNSGQCCLETFRGDMVLVTCSPLAGPGASCSNSTEGDEPYQNACPCEPGLECINNVCTALP-VPVPVE
IS-18-24-clu45      DQQPQVSTGSTSGICSSQKECSRDQCCLETFSGDMVLVTCSPLARPGAPCSNLTEGDEPYKDGCPCIPGYECVDGTCTATPQQPVAVE
is-all-162          DQQPDVTYSVPSGICSKNSECGPNLCCRETFKGDMAVVTCAPLAKSGVPCSNSETGDEPYKTYCSCETGLECINNVCTALP-APVPVE
                    ****:*. . ..*:**.:.:*. . ** *** ***.:***:*** .*..***   *****:  *.* .* **::..*** *  **.**
```