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S1 .....FFFFSPFSSSSSLVFFSTKKN
S2 QQQQQQQQQQQQQQQIGGSLLMRVPTRLKIEPSSTPMTSSVTTCLTPGPTLSSMSSEFSPAAPSSQD.....SG

S1 NKNLPAACVASAWIQGTVMVPDKV...KNTTSDDEDEYFEPNP.....VQISELLAKTIGDAHSRT..CLF
S2 GD.....DVSEHDVGVAAPNKPDFAADTT.....TPPPRNSNNSIRAQIEITPCKVCGDKSSGVHYGVI

S1 SGEHIADMLRKPQDISKVHYYKNMAQEELLWLECAQRLTAVIQQIIEFAKMVPGFMKLSQDDQIVLLKTGSFELAV
S2 TCEGCKGFRRSQS.....SVVNYQCPRQKNCVVDKINR.....NRCQY

S1 IRMSR..YFDLTQNAVLFGDTMLPV.....EAFLTTDSVEAELVSAVFDFSKSLAELKLSEIQLALYSA
S2 CRLQKCLALGMSRDAVKFGRMSKKQREKVEDEVRYHRAQMKAQQAETSPDSSVFDNQQPS.....SSDQLAPYTG

S1 FVLLSSDRMGLRGNLEIQRLSQAVLRALRLELSRTHRTPLKGDVSVADSLAARLPALREISVLHMEALVRFKRAT
S2 GYS.....SYGGDLS.....PYTPSGY.....GFTPT

S1 PHLEFPALHKELFSVDS.....
S2 PHMGGYDISGTSDYVDSTTFDPRQTPIEALPDSNLLSPVVSTGCAKMMTDPSGVTLFPAKNPRPGPDPGGSAHL

S1 .....
S2 APLLIDPAAAVAAAAAAAVAAAAAATAAVGGGGGCHSSINPVLNLDERSCSNNIYPPRQNT

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X non-conserved  
X similar  
X ≥ 50% conserved  
X ≥ 70% conserved

Figure 1: Evadne nordmanni RORa  
 S1 - TRINITY DN486 c0 g1 i11.p1 ORFtype 5prime partial len 311  
 S2 - TRINITY DN707 c0 g1 i5.p1 ORFtype internal len 397