

```

S1 QQPQHGAQPQQQHNPHHHQPQQPQQQQPQQQGGSLMRVPNRPLKSESIVAASTTPLTSSVTCLTPGPT
S2 .....

S1 LSSSISSEFSPAAASSQDSVGDEGSEHD.....GKPDFAADTTTPPPRRNSNNSIRAQIEIIPCKVCGDKSSG
S2 .....DDVSEHDVGGVAAPNKPDFAADTTTPPPRRNSNNSIRAQIEIIPCKVCGDKSSG

S1 VHYGVITCEGCKGFFRRSQSSVVNYQCPRQKNCVVDKINRNRCQYCRLQKCLALGMSRDAVKFGRMSKKQREKVE
S2 VHYGVITCEGCKGFFRRSQSSVVNYQCPRQKNCVVDKINRNRCQYCRLQKCLALGMSRDAVKFGRMSKKQREKVE

S1 DEVRYHRAQMKAQQAETSPDSSVFDNQPPSSSDQLAPYTGGYSSYGGMSPYTPSGYGFT..PHMGGYDINGTND
S2 DEVRYHRAQMKAQQAETSPDSSVFDNQPPSSSDQLAPYTGGYSSYGGLSPYTPSGYGFTPTPHMGGYDISGTS

S1 YVDSTTFDPRQTPIETLPDSNLVSPVVSNGCAKMMTDPSGVTLFPAKNPRPGPDGPGGAAAHLAPLLVDGPATVA
S2 YVDSTTFDPRQTPIEALPDSNLLSPVVSNGCAKMMTDPSGVTLFPAKNPRPGPDGPGGS.AHLAPLLIDPAAAVA

S1 AAAAAA AAAVAAAAAAAAAATAAVGGGGGCHSSINPVLNLDERSCSNNIYPPRQNGTVVASGPNKVKNTTSEDE
S2 AAAAAAVPPP.....

S1 EEYFEPNPVQISELLAKTIGDAHSRTCLFSGEHIADMLRKPQDISKVHYYKNMAQEELWLECAQRLTAVIQQIE
S2 .....

S1 FAKMVPGFMKLSQDDQIVLLKTGSFELAVIRMSRYFDLTQNAVLFGDTLLPVEAFLTTDSVEAELVSAVFDFAKS
S2 .....

S1 LAELKLSEIQLALYSAFVLLSSDRLGLRGTLIEIQRLSQAVLRALRLELSRTHRTPLKGDVSVADSLAARLSALRE
S2 .....

S1 ISVLHMEALVRFKRATPHLEFPALHKELFSVDS
S2 .....

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

Figure 1: Podon leuckartii RORa

S1 - TRINITY DN774 c1 g2 i24.p1 ORFtype 5prime partial len 699

S2 - TRINITY DN5761 c2 g1 i5.p1 ORFtype internal len 288