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S1  MEGFQSANFVKMEDYGPQADLSPPKISTNMKAHIEVIPCKVCGDKSSGVHYGVITCEGCKGFFRRSQAGPVNYQC
S2  .....

S1  PRNKGCVIDRVNRNRCQYCRLQKCLALGMSRDAVKFGRMSKKQREKVADEASFYQQN.....GE.ESPTNNNNN
S2  .....NRNRCQYCRLQKCLALGMSRDAVKFGRMSKKQREKVEDEANFHRQTSVGSSNGEPLSPTNNNNY

S1  NFVYPQFQYSPNGTAYTQVPIPTGYAPMSPDLPYPPDASESPPLIKSNDEIDL DLLS.....
S2  TIGYPQFQYSPNGTAYTQVPIPTGYAPMSPDLPYPPDASESPPLIKSNDEIDL DLLSKAIADAHERTCLYGKEQL

S1  .....
S2  AAMQRTAPPDEQFDILKKMSSEKLWMELAEKVTLAVQQIIEFAKMVPGFMNLLQDDQIMLLKGSFEIALIRLCR

S1  .....
S2  AYDPEKNCVAFGSCFMPVDAFQNLNEEESDLMHAIFTFARDLISLNLTECELALYAATVLIDAERP GVRDAGIIG

S1  .....
S2  KLGERMEAALRAELGKNHPEPERLRAALRERV PGLHLLSARHAQLLTSFKQDNPDIDFPALHKELFSQENIDDIQ

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

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Figure 1: Poecilochaetus sp RORa
S1 - TRINITY DN28079 c0 g2 i2.p1 ORFtype 3prime partial len 200
S2 - TRINITY DN850 c2 g1 i1.p1 ORFtype 5prime partial len 364