```
S1  ..................................................................
S2  MEWLLPHITRINNFCSTLEHGQKSYIHLSRGLPRGDHQKDPQSGVEERSPPSFVRMDENQTKDSGIEHLEDDHHA


S1  ..................................................................
S2  KRKEFEDDEIEAEYPPNNNIDFQGQIKRYNEIMKAKSNKFPVSVIVSDRTNSTTSSAPSPTSSITDNSDWYRQGV


S1  ......GDKSFEKSYIYDPKPLTRKTRRSLVPDEQKTQKYWMKRMRNNVAARKSREDRRRKELEVLETMKTLREE
S2  NEDREGRGKGRGKSYSYKPAPMVKKSERRFISAEKKDSTYWERRKRNNAAARKSRESRREKEIEVNRKCDMLKQE


S1  NEKMKSYIDTVVKANEQLVAEMMRMKHKIQQYESSNTKVAA
S2  NDGMRFTIMNLQERNIQLESTMKLYKEILIK....NNLL..
```

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

Figure 1: Phialella quadrata PDP1e
S1 - TRINITY DN35230 c0 g1 i1.p1 ORFtype 5prime partial len 110
S2 - TRINITY DN27 c1 g1 i1.p1 ORFtype complete len 260