

```

S1 .....
S2  MVAEVLSHHHAMQQQQRRYSVMEERSLMQQQQQQQQQQQQHSSNMRDQDQFHGMEERALHAAAAAAGFNPAG

S1  MDMSLANLGCNVQGLLNQQLIQEHQNAATAAAQRKQREFIPDNKKDDSYWDRRRRNNEAAKRSREKRRLNDMVLE
S2  MDMSLANLGHNVQGLLS...LQDHQS....AAQRKQREFIPDNKKDDSYWDRRRRNNEAAKRSREKRRLNDMVLE

S1  GRVLELTKENHILRAQLSAIRDKYGIMGDNLICIDQVLS TLPSPDQLLSVPRPRSRLLTGMS SMSGVSPAPS NH
S2  GRVLDLTKENHILRAQLSAIRDKYGIMGDNLICIDQVLA TLPSPDQLLSVPRPRSRLLTGIS .SIGSVSPSPSSH

S1  SEMSPTPPNLPITSSSSSSSSSSSSSS...
S2  SGMSPSPPTNAAAHHHHQQQQQQQQQQQQ

```

```

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

```

Figure 1: Podon leuckartii VRI  
S1 - TRINITY DN8368 c0 g1 i2.p1 ORFtype 3prime partial len 176  
S2 - TRINITY DN3697 c2 g1 i1.p1 ORFtype 3prime partial len 246