

S1 PCSPIVLNLYLIPMSFPNCPNLFFLSLSFPLFSYHSKLIYRSLIAFPPEQEVKGSSGRMFGLGNFDYPSKYRSECS
 S2MFGLGNFDYP.KRSECS

S1 SIASYSSDNGSKKRRGSFLDSNDEDAADSIKIPRTSGEWSKRQNHSEIEKRRRDKMNTYIMELSSIIPVCTSRKLD
 S2 SIASYSSDNGSKKRRGSFLDSNDEGDSIKIPRTSGEWNKRQNHSEIEKRRRDKMNTYIMELSSIIPVCTSRKLD

S1 KLTVL.....
 S2 KLTVLRLMAVQHMKMLRGSLNSYTEGHYKPAFLSDDELKNLILQPLQAADGFLFVVGCDRGRILYVSESVYQTLHH

S1
 S2 TQGELLGTSWFDILHPKDLTKVKEQLSCSDISRRLVDAKTLLPVKTDVPQGLTKLCPGSRRAFFCFMRCKSAP

S1
 S2 VLKEEADSSTGCPKKKSKSQSSDKKYSVIHFTGYLKSWAPTKDPLEEDSGSDSESCNLSCLVAVGRVHQPLLSSG

S1
 S2 AQDAARFGRTVPPQSIDFISKHTSDGKFVFIDQRASLLLGWLPQELLGSSMYEYFHQDDIPFLADTHRSTLQSSE

S1
 S2 SCNTQVYRFRTKDGSFVRLQSVWWTfKNPWTkdIEYIISKNSVVTSEAGLVESTMANDSVSQSFNSFNEFLSSPG

S1
 S2 NCIPDTPPPSNSASSNTNNRLIGGGMHAGKIGRQIADEVLDsQRRNDsASNSPVSPFEGILGTGASDRSFATLLR

S1
 S2 SDMTAHRsNVKNNVLLSSNTSSCSGSDTSRGPQLNSTTTTTTPNNHHNNHHNNHHNNHHNNHHHTNNSNIPASD

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

Figure 1: Corystes sp CYC
 S1 - TRINITY DN36011 c0 g1 i1.p1 ORFtype internal len 155
 S2 - TRINITY DN7745 c1 g2 i1.p1 ORFtype 3prime partial len 615