S1	
S2 S3 S4	MADTESRAVTMEEQEQTIDDAKNPCQQDSAYGSLESSSQGPSQKSSYSGSKSLNSGSSHSSGFGDNADFSENCLK
S1 S2 S3 S4	DTKHKDHKRKKVKEKTEKKVEKAEKLTKEEKKEKDKTRSGQNHHDPRLTSETASSIATGMEESSSAFNCNSNDGD
S1 S2 S3 S4	
S1 S2 S3 S4	AITDVLGFPKDML <mark>V</mark> GQSFIDFVYPKDSINLSSKIIHGLNMPLRNESIKDNYGTSFFCRMRMYHSLR <b>T</b> SGFGVRNK AITDVLGFPKDML <mark>I</mark> GQSFIDFVYPKDSINLSSKIIHGLNQPFRNECIKDNYGTSFFCRMRMYHSLR <mark>S</mark> SGFGVRNK
S1 S2 S3 S4	R RTIYKPCKMILKFHDPTCLDETASTCGPNSSLLLAEVIPIQSIYQVPEETPAMGSFSIRHTASCNFSEYDPEAIP
S1 S2 S3 S4	YLGHLPQDLTGNSVFDCYHPEDLPLLKEAYELMVREQGNPHRSKPYRFRTFNGSYVTLETEWLCFVNPWTKRIDSNSVFDCYHPEDLPLLKEAYEEMVREQGNPHRSKPYRFRTFNGSYVTLETEWLCFVNPWTKRIDS
S1 S2 S3 S4	IIGQHRVLKGPKDIAIFLDPGDKAPTL <mark>T</mark> PEEVMKEAQKAQKDILELLAKPVVAYKDPSKGSQEMRRRTLANMMSS IIGQHRVLKGP <mark>S</mark> DIAIFLDPGDKPPTP <mark>L</mark> PEEVMKEAQKAQKDILELLAKPVVAYKDPSKGSQEM
S1 S2 S3 S4	IVDELDNLEKTETQVANKYSLPTLNKIRKPNHHPPVRPDHNSPVQKGQESVTSSSESPSSYGHLNYSETIHRFFR
S1 S2 S3 S4	SQPKTVSSDESGDSKMEVSHLGSVGSTTNKQSQDNSQSQSGSGDNCDRTRKSVSTANGSGTGSGATGRTSSQG
S1 S2 S3 S4	RSYKHVQLTEEVLSRHNADMQKMFMQRQRTGPKPHKDKGKLKTMKKLIKRPVERTCGVKRCGGAVEHEATASKQP
S1 S2 S3 S4	FLAPSAAGSGSSLKPPSVDVWGQGESQTHIQSSGSAGATIGPTHVAAPQYPSIVPGFYFPTSTSSISQVAPVSRA
S1 S2 S3 S4	PAPVPLVLPPQPPTFLHPQGVSAMPVQYIPGVMYQPVGPPLFNAPPLMLPNVVYQHTAVHAPLSHVPVPVPDTQK

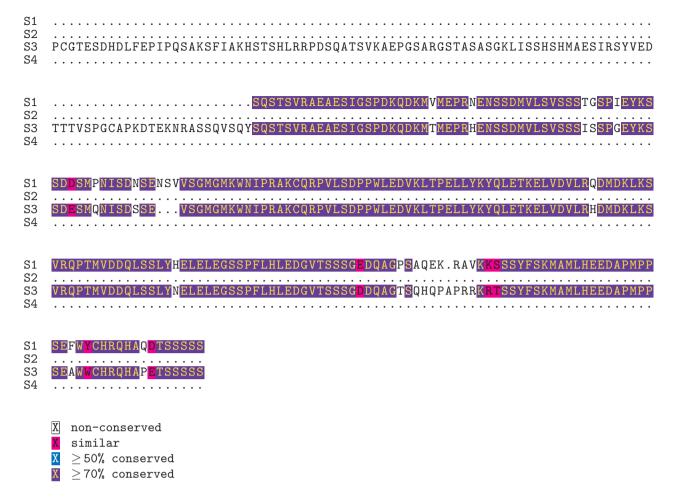


Figure 1: Corystes sp PER

S1 - TRINITY DN17321 c0 g1 i1.p1 ORFtype 5prime partial len 218

S2 - TRINITY DN71430 c0 g1 i1.p1 ORFtype internal len 111

S3 - TRINITY DN3394 c0 g1 i4.p1 ORFtype complete len 1216

S4 - TRINITY DN3394 c0 g2 i1.p1 ORFtype internal len 128