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S1 MDGGRNILQRVGTPATPLHKQERPDSPPSPGTPNMNMKQEGPMLVPPIWRDNLSESIANDFLDSNVTGEVMNLD
S2 .....
S3 .....

S1 DFLKELQVKELSCHSDRVGRFSPQQQQQTLHQPPQQPQPEQQLQQPDLQRYNLIRPANIEALKEQTQFSPHQPTR
S2 .....
S3 .....

S1 PSIVHHVHGKPPPELFPIQSPVHASFPIDRVNPTLPLDRVHSSSPLDREHPSVSLDRVHPSLPMDRVHHSPLDRGH
S2 .....
S3 .....

S1 HSLHLPHPVSVPKDGSGIPQASVRPQVRTFISHEKEEGVRSPQKKKKLYT.REERSRAISGHESDSSDDDTVS
S2 .....IMSTKDSMK...KNLLP.....KGENNFLYAESKRAKMEREEKRRR.....
S3 .....

S1 FQGGLSSTVVFHSQDDLRLATIPGQEQEFDPASRRHFSEELKPQPIIRKRRKQFVPDELKNNKYWAKRCKNNDA
S2 .....MEVDMEFAPEDLALATVPGA...DFNPRERAFDV EELRPQPIIRKRPKLFVPEMEKDDRYWDKRCKNNVAA
S3 .....RVPGS..GFDPKTRAFSAEELKPQPIIKRKKMMIPMADKDDRYWHKRSKNNVAA

S1 KRSREARRLKENQIAMRARFLEEENNSLKSEMDNLKQENTGLKQMMTALEEKVQAMLDSR.....
S2 RRSREARRLKENQIALRAAYLEKENAMLKADLDEATFERTKLAMERDILMKKLAKYE.....
S3 RRSREARRLKENQIALRAAFLEKQNTYLLKVTLLKNNIENASTKVVNNLLIAQIKDKEDRKNSINQLD

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

Figure 1: *Temora longicornis* PDP1e

S1 - TRINITY DN3193 c0 g2 i1.p1 ORFtype complete len 434

S2 - TRINITY DN264 c0 g2 i1.p1 ORFtype 5prime partial len 165

S3 - TRINITY DN34212 c0 g1 i1.p2 ORFtype 5prime partial len 120