

Supplementary Fig. S2 Alignment of *Chytridium lagenaria* and *Dinochytrium kinnereticum* sequences.

Cl - *Chytridium lagenaria* KAI8846486.1

WGS- *Chytridium lagenaria* JAHLKC010000073.1

Dk - *Dinochytrium kinnereticum* KAJ3212964.1

*Dk*WGS - *Dinochytrium kinnereticum* JADGJT010000208.1

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Cl1  MSSVGSRDSDLEEEAFIAFAAFGSARK-----PRHGRSSGSR-----ISKIARESGMIGGNLTVTDVDIVFGRCK 65
ClWGS 60123 MSSVGSRDSDLEEEAFIAFAAFGSARK-----PRHGRSSGSRvrmeyg*ckISKIARESGMIGGNLTVTDVDIVFGRCK60344
Dk    1    MGERDLDLEEEAFIAFAAFGSARNLATGDVPAAGLGW---ALNSASFAKLTRESGIIGSVVILTDIDIIENQCK 70
DkWGS 20220 MGERDLDLEEEAFIAFAAFGSARNLATGDVPAAGLGWvcgtgrfvylppp*afshpllpdcr*ALNSASFAKLTRESGIIGSVVILTDIDIIENQCK 19930

Cl1 66    VGRKLDFAFKKALEMIAERRGCTIEHVKALVIGSEPQLKGTV 108
ClWGS60423VGRKLDFAFKKALEMIAERRGCTIEHVKALVIGSEPQLKGTV 60551
Dk71    VGRKLDFTAFKRSLELIAEKRGCSVDHLKALIIASEPKLNGTV 113
DkWGS 19865 VGRKLDFTAFKRSLELIAEKRGCSVDHLKALIIASEPKLNGTV19737

Cl1 109   PDMIPIVEKLTDASLYTGSHRERFDSVTGVGGAAGRDTVAKTGSLSDIVSRHNPNTTLGSPKVMR-VATIT- 179
ClWGS60625 PDMIPIVEKLTDASLYTGSHRERFDSVTGVGGAAGRDTVAKTGSLSDIVSRHNPNTTLGSPKVMR VATIT- 60828
DkPDLNPIVEKLTDASLYTGSHRERFDRETGVGKGAAGRDTFSATASLSHIVSRHNPNTTLGSPKVHRPTPTVTV 186
DkWGS 19646 PDLNPIVEKLTDASLYTGSHRERFDRETGVGKGAAGRDTFSATASLSHIVSRHNPNTTLGSPKVHRPTPTVTV* 19425

Cl1 180   PPKSPPTTPRMQSPRTTNGQSVFDRLLSSPTTFTGTHKHRFNPDGTGRGLEGRTGEGAGETVNSLSQITRK 249
ClWGS60980 PPKSPPTTPRMQSPRTTNGQSVFDRLLSSPTTFTGTHKHRFNPDGTGRGLEGRTGEGAGETVNSLSQITRK* 61192
DkWGS 19308 ppkspstvssksgtpttknsns svfdrllsspttftgthkhrfnadgtgrgkegrtgsgdvitnlaqitrk* 19132
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