

S1
S2 MSRF DGNQLDKHVVHWF RKGLRLHDNP SLRDGLKHSATFR CIFILDPWFAGSSNIDINKWRFLLESLEDLDQSLR

S1
S2 KLNSRLFVVVRGPAGVLPRLFKEWGTTCLTFEEDPEPFGRVRDQNI MTMCKEMGIEVISRSSHTLYHPQTIIQKN

S1I DGLMPAVWKGGETEA
S2 RGRAPLTYRQFNIIATVDPPPPPEPDITFQFIARSYTPMNNDAD EKYNVPTLEELGFDT DGLMPAVWKGGETEA

S1 MTRLQRHLEHRTWVA CCDQPKMTPQSLLASQTGLSPYLRFGCLSVRLFHQQLTSLYKKIKKADPPLSLHGQVLWR
S2 MTRLERHLEKAWVASFGRPKMTPQSLLASQTGLSPYLRFGCLSVRLFHQQLTSLYKKIKKAHPPLSLHGQVLWR

S1 EFFYCVATNNPNFGRMSGNPICVQIPWDTNAV ALAKWANGQTGFPL IDAIMTQLREEGWIHQLARHAVACFLTRG
S2 EFFYCAATNNPNFDRMAGNPICVQIPWDTNAEALAKWANGQTGFPL IDAIMTQLREEGWIHQLARHAVACFLTRG

S1 DLWISWEEGT KVFEELLLDADWSVNAGTMMWLSCSS
S2 DLWISWEEGM KVFEELLLDADWSVNAGTMMWLSCSSFSQQLFNNFCPVKFGRQVDPNGDFIKKYL PVLKNFALEY

S1
S2 IHEPWKAPEEAQRTAKCIIGKDYPLPMVNHMVVSHINIQRMQQVYQRLSNEQFFLLQASSQQTANSKQLFTNSND

S1
S2 EFVDPLPGPSNAM

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

Figure 1: Evadne nordmanni CRY2
S1 - TRINITY DN3936 c0 g1 i1.p1 ORFtype internal len 202
S2 - TRINITY DN6948 c0 g1 i58.p1 ORFtype complete len 538