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S1  MSHGLN70ILWFR75RNLRL80HDNPSL85QIVTQNPH90N95IFPI100IYIFDTR105FQST110IGKK115SYHQNA120FLLECL125ED130LKRS135LNQV140GGQL145HL
S2  ....MNVVWFR75RGLRF80HDNPSL85LSAIKDAEN90LVA95IYIFDTK100FEDVP105.RSFHSSG110FLLECL115AD120LDNT125LRKM130MSRL135HL

S1  ILQGCPI110QIFRYLHSL115HGI120ASMSVQ125QDSEPIWQ130FRNVD135IQSLSTE140LNFEYQ145EHISHTLWDPI150CI155ISTYGGTAPLT
S2  VFRGCPLA110VFRYLHSGS115GLKKV120CFEQDCEPIWH125FRDDS130VKSLLGAL135GV140ECSEHISHTLWDPM145NI150IIVANGGTPPLT

S1  FNSFVEVTTSLPEPALPL160PDINWENVN165FLPIKCPV170NSQQFMFYED175IPSLSDLGV180EP185IPEISQ190KRI195IKGGETVA
S2  YDMFVHVAMSLGDPPKPV160EDPDWTGVN165FSNIT...AMESAEFVL170FE175GMPSLSEI180GVAD185IPLAQR190KRRI195IGGEVTA

S1  LKMLALRLEVEKA200AFRAGL205FQPNQARP210NLLGPLMSMSCA215INVGALSIRYFYW220KIRHLYDE225TIQCIRPPL230IEITGQ
S2  LKTLETRLRAEKSA200FLAGFYQPNQARPD205LLGPPLSIS210SAISMGATSVRFFYHK215VHDLFDE220INRCQPPAR225IHITGQ

S1  MMWREYFYTQSRLNLHF230NQIKNNPVCLNIPWSK235DESFLQD240WKDGK245TGYPPIDAGMRQIV250QEGWTHHL255IRNAVAMF
S2  LIWREYFYTMSRLNSKYDKMKGN230PICLQIPWKE235DEEQFQK240WVNGMTGYPPIDAGLRQLI245QEGWMHHS250VRNAVAMF

S1  LTRGDLWISW260ERGCEHLM265EHLIDS270DWSINAGNWMWISSSAFDRVLD275STQSIDPVL280FGKRLEPSGEYIRKYIPELA
S2  LTRGDLWLHWEKGADHLMN260HLVDC265DWSVNSGNWMWVSSSAFERLLD270CSVCINSV275SYGKRLEPSCNFI280RRFVPELA

S1  NFSFQYIHEPWKAPVEV285QKAANCIIGIDYPEPI290VN295HTEQSLRNKERM300TKFKEEL...AGNIPFYFHS305SALT...
S2  NFPFEYIHEPWKAPIEA285QQAANCLIGKDYPARM290VIHEEVSR295RREH300MAIREK305IVAKCQGSAPP310HCKPSSENEVY

S1  SFYQIPNQCLPIEVESSDIETKDMLP
S2  QFFCIAENCLHV.....

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<sup>70</sup> non-conserved  
<sup>75</sup> similar  
<sup>80</sup> ≥ 50% conserved  
<sup>85</sup> ≥ 70% conserved

Figure 1: Evadne nordmanni CRY1  
 S1 - TRINITY DN3072 c0 g1 i19.p1 ORFtype complete len 544  
 S2 - TRINITY DN3668 c0 g1 i1.p1 ORFtype complete len 529