

MLQELSYKNFAI|SSLLTVSFERGM|TVLTGETGAGKSI|IDAMSL|LVGGRGSSDYIRYQENKCTLEGLFSMPSSQPVLVKLEEQGL
MLAELSIKNFAIIEEL|TVSFERGL|TVLTGETGAGKSIIDAI|SLLVGGRGSSDFVRYGEAKLEGLFLLSGHPVLVGCARQGI

EVSEESLVMRRD|STSGKSVCRVNGRLVT|TSLRR|GRYLVDHGNENQLMQSERHTLMDDKFEGKKVL SVLKTYTGQYQRW
DTEEDMTIQRAASGKNVCRVNGRIVNTANLRKELELLDHGHENQLMEDENHTDLLDEFAAELEAAKEKQEAFEEF

E TEEDS LVI QRDISA SGKN VCRVNG RIVN ITNL KRI GEYLV D IHGQNE HQEL MQS ERHI DM LD E FGG KK L LAV KEKY TQA Y QEYR
DVSDEM I VM RR D IST SGKS VCRVNG KL VT IAS LR EI GR LL DI HGQH DN QL LM ED EN HL Q LL DK FAG AEVES ALK TY QC EY QR W

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ES|SS|NSPYK|TM|SETV|SN|SWYLL|QEATGQMSRML|G|E|F|D|PG|RLN|WY|ETRL|NL|E|RQ|LKRKYG|DTV|ET|L|SVY|SK|TK|E|LDQ|LEN
AD|EDT|DEEL|KL|DS|QA|ED|SF|DLR|NL|DE|F|EE|RLN|WY|ETRL|NL|E|RQ|LKRKYG|ASTV|ED|L|E|AEE|EE|L|TAEADP
AS|TES|LDS|EYK|T|LSD|TVQNA|YLLQ|EASG|DL|SR|LIDG|LE|LDE|GR|LNE|VEN|RL|EL|IRQ|MKRKYG|DS|IET|ILSY|YEE|ITK|E|LAEADP
ED|ISD|INEP|LKKMS|ESV|SNS|YLLD|ATFQ|MRNML|DELE|FDP|ERL|NY|ETRL|NE|IKQ|LKRKYG|ATVED|LLEY|ASK|IEE|L|DQ|LEN
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RESHTQS|KKL|DSVQDDVHVQ|ALNVSQI|RK|TWAKK|EQQ|LT|ELKS|LYMER|RTTF|EVRF|TV
LDGGLGD|EAE|AEKGAAAQE|AALLRKE|RRL|ELEADE|HRELKSEL|LERKSE|DTEF|KERTASRNEEAPLVNGQLPVLTEQGL

LEGGTGDLEALAEKQQAHHQQAALARKRERKRLAKELEQQILTELKELYLERTEFEVRVFTE.....LEHLQENGI
RDSLHLQSLKKE|LDSVGKDVAVE|AANVSQIRK|TWAKKLADE|IHRELKSLYMEKSTFDTEFKVVRTASRNEEAPLVNGQPVLTEQGI

* * * * *

[illegible]

 non conserved
 similar
 $\geq 50\%$ conserved