

MAELS|KNFAI|EELTySFERGLTVLTGETGAGKSI|DAYSLLVGGRSSEFVRYGEAKAELEGLFLLDSGHPVFEVCAEQGI
 MAELSIKNFAIIEELTISFERGLTVLTGETGAGKSIIDAISLLVGGRSSEFVRYGETAKAELEGLFLLDSGHPVFEVCAEQGI 85
 MAELSIKNFAIIEELTVSFERGLTVLTGETGAGKSIIDAISLLVGGRSSEFVRYGEAKAELEGLFLLDSGHPVLGVCAEQGI 85

D_AS_DE_DM_DV_DM_DR_DR_DI_DN_DA_DG_DK_DS_DV_DC_DR_DV_DN_DG_DK_DL_DV_DT_DI_DA_DS_DL_DR_DE_DI_DG_DR_DL_DL_DL_DD_DI_DH_DG_DQ_DH_DD_DN_DQ_DL_DL_DM_DE_DD_DE_DN_DH_DL_DQ_DE_DL_DL_DD_DR_DF_DA_DG_DA_DE_DV_DE_DS_DA_DL_DQ_DT_DY_DV_DH_DE_DG_DY_DE_DR_DY_DM_D

170

D_VS_DE_DM_DV_DM_DR_DR_DI_DN_DA_DG_DK_DS_DV_DC_DR_DV_DN_DG_DK_DL_DV_DT_DI_DA_DS_DL_DR_DE_DI_DG_DR_DL_DL_DL_DD_DI_DH_DG_DQ_DH_DD_DN_DQ_DL_DL_DM_DE_DD_DE_DN_DH_DL_DQ_DE_DL_DL_DD_DR_DF_DA_DG_DA_DE_DV_DE_DS_DA_DL_DQ_DT_DY_DV_DH_DE_DG_DY_DE_DR_DY_DM_D

170

KLLKKYKQLSESEQEMAHRLDLIQFQLEEIESAKLELNEDEQLQEERKQISNFEKIYESLQNAYNALRSEQGGLDWVGMSAQL
 KLLKKYKQLSESEQEMAHRLDLIQFQLEEIESAKLELNEDEQLQEERKQISNFEKIYESLQNAYNALRSEQGGLDWVGMSAQL
 *

255
 255

DISDINEPLK^QMS^NESVS^NSSYYLLEDATFQMRN^MLD^LE^FY^FDPERLN^FY^FETRLNEIKQLKRKYGATVEDILEY^GASKIEEEIDQIENR

DISDINEPLK^QMS^NESVS^NSSYYLLEDATFQMRN^MLD^LE^FY^FDPERLN^FY^FETRLNEIKQLKRKYGATVEDILEY^GASKIEEEIDQIENR 340

DISDINEPLK^QMS^NESVS^NSSYYLLEDATFQMRN^MLD^LE^FY^FDPERLN^FY^FETRLNEIKQLKRKYGATVEDILEY^GASKIEEEIDQIENR 340

LVKFLISTNTGEPLKSLKVASGGELSRVMLAKSIFSSQDVTSLIFDEVDTGVSGRVAQAIAEKIHKVSTGSQVLCITHLPQV
 LVKFLISTNTGEPLKSLKVASGGELSRVMLAKSIFSSQDVTSLIFDEVDTGVSGRVAQAIAEKIHKVSTGSQVLCITHLPQV 510
 LVKFLISTNTGEPLKSLKVASGGELSRVMLAKSIFSSQDVTSLIFDEVDTGVSGRVAQAIAEKIHKVSTGSQVLCITHLPQV 510

AAMADTHLYIAKEFKDGRITTHVTPPLSKQEKVAEIGRMIAGVEVTDLTRHAKELLKQAGQVKTG
 AAMADTHLLIAKEFKDGRITTHVTPPLSKQDKVAEIGRMIAGVEVTDLTRHAKELLKQAGQVKTG 576
 AAMADTHLYIAKELKDGRITTHVTPPLSKQEKVAEIGRMIAGVEVTDLTRHAKELLKQADQVKTG 576

 non conserved
 similar
 $\geq 50\%$ conserved