```
MAAVVLENGVLSRKLSDFGQETSYIEDNSNQNGAISLIFSLKEEVGALAKVLRLFEENDINLTHIESRPSRLNKDEYEFFTYLDKRTKPVLGSIIKSLRNDIGATVHELSRDKEKNTVPW   120
MAAVVLENGVLSRKLSDFGQETSYIEDNSNQNGAVSLIFSLKEEVGALAKVLRLFEENEINLTHIESRPSRLNKDEYEFFTYLDKRSKPVLGSIIKSLRNDIGATVHELSRDKEKNTVPW   120
MSTAVLENPGLGRKLSDFGQETSYIEDNCNQNGAISLIFSLKEEVGALAKVLRLFEENDVNLTHIESRPSRLKKDEYEFFTHLDKRSLPALTNIIKILRHDIGATVHELSRDKKKDTVPW   120
MSALVLESRALGRKLSDFGQETSYIEGNSDQN.AVSLIFSLKEEVGALARVLRLFEENDINLTHIESRPSRLRKDEYEFFTNLDQRSVPALANIIKILRHDIGATVHELSRDKKKDTVPW   119
...........................................................................................................................     0
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FPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEEKQTWGTVFRTLKALYKTHACYEHNHIFPLLEKYCGFREDNIPQLEDVSQFLQTCTGF   240
FPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEERKTWGTVFRTLKALYKTHACYEHNHIFPLLEKYCGFREDNIPQLEDVSQFLQTCTGF   240
FPRTIQELDRFANQILSYGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYMEEEKKTWGTVFKTLKSLYKTHACYEYNHIFPLLEKYCGFHEDNIPQLEDVSQFLQTCTGF   240
FPRTIQELDNFANQVLSYGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEEKKTWGTVFRTLKSLYKTHACYEHNHIFPLLEKYCGFREDNIPQLEEVSQFLQSCTGF   239
...........MNDRADFVVPD.....ITTRKNVGLSHDAN......DFTLPQPLDRYSAEDHATWATLYQRQCKLLPGRACDEFMEGL....ERLEVDADRVPDFNKLNQKLMAATGW    93
.......MAIATPTSAAPTPAPAGFTGTLTDKLREQFAEGLDGQTLRPDFTMEQPVHRYTAADHATWRTLYDRQEALLPGRACDEFLQGL....STLGMSREGVPSFDRLNETLMRATGW   109
.......MSG...........DGLSNGPPPGAR.....PDWTIDQGWETYTQAEHDVWITLYERQTDMLHGRACDEFMRGL....DALDLHRSGIPDFARINEELKRLTGW    84
.........MKTTQYVARQPD.........DNGFIHYPETEHQVWNTLITRQLKVIEGRACQEYLDGI....EQLGLPHERIPQLDEINRVLQATTGW    76
.........MSVAEYAR.........DCAAQGLRGDYS..VCRADFTVAQDYD.YSDEEQAVWRTLCDRQTKLTRKLAHHSYLDGV....EKLGL.LDRIPDFEDVSTKLRKLTGW    90
          *         *        *      *   *              * *  !****  *! *!   **  **   !* *   *         **  * *!*** *** !* !!*

RLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPEPDICHELLGHVPLFSDRSFAQFSQEIG.LASLGAPDEYIEKLATIYWFTVEFGLCKEG.DSIKAYGAGLLSSFGELQYCL   358
RLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPEPDICHELLGHVPLFSDRSFAQFSQEIG.LASLGAPDEYIEKLATIYWFTVEFGLCKEG.DSIKAYGAGLLSSFGELQYCL   358
RLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPEPDICHELLGHVPLFSDRSFAQFSQEIG.LASLGAPDEYIEKLATIYWFTVEFGLCKQG.DSIKAYGAGLLSSFGELQYCL   358
RLRPVAGLLSSRDFLGGLAFRVFHCTQYIRHGSKPMYTPEPDICHELLGHVPLFSDRSFAQFSQEIG.LASLGAPDEYIEKLATIYWFTVEFGLCKQG.DSIKAYGAGLLSSFGELQYCL   357
KIVAVPGLIPDDVFFEHLANRRFPVTWWLREPHQLDYLQEPDVFHDLFGHVPLLINPVFADYLEAYGKGGVKAKALGALPMLARLYWYTVEFGLINTP.AGMRIYGAGILSSKSESIYCL   212
QIVAVPGLVPDEVFFEHLANRRFPASWWMRRPDQLDYLQEPDGFHDIFGHVPLLINPVFADYMQAYGQGGLKAARLGALDMLARLYWYTVEFGLIRTP.AGLRIYGAGIVSSKSESVYAL   228
TVVAVPGLVPDDVFFDHLANRRFPAGQFIRKPHELDYLQEPDIFHDVFGHVPMLTDPVFADYMQAYGEGGRRALGLGRLANLARLYWYTVEFGLMNTP.AGLRIYGAGIVSSRTESIFAL   203
RVARVPALIPFQTFFELLASQQFPVATFIRTPEELDYLQEPDIFHEIFGHCPLLTNPWFAEFTHTYGKLGLKASKE.ERVFLARLYWMTIEFGLVETD.QGKRIYGGGILSSPKETVYSL   194
EIIAVPGLIPAAPFFDHLANRRFPVTNWLRTRQELDYIVEPDMFHDFFGHVPVLSQPVFADFMQMYGKKAGDIIALGGDEMITRLYWYTAEYGLVQEAGQPLKAFGAGLMSSFTELQFAV   210
 *   !*!! *  !  * *  !* !! !*  ** *!   **!  !!!**!***!!*!*****!*  !! * * *  *! **  *    *  *****!! !*!*!! ***!*!**!!* !*****

SD.KPKLLPLELEKTACQEYSVTEFQPLYYVAESFSDAKEKVRTFAATIPRPFSVRYDPYTQRVEVLDNTQQLKILADSINSEVGILCNALQKIKS   453
SD.KPKLLPLELEKTACQEYTVTEFQPLYYVAESFNDAKEKVRTFAATIPRPFSVRYDPYTQRVEVLDNTQQLKILADSINSEVGILCHALQKIKS   453
SE.KPKLLPLELEKTAIQNYTVTEFQPLYYVAESFNDAKEKVRNFAATIPRPFSVRYDPYTQRIEVLDNTQQLKILADSINSEIGILCSALQKIK.   452
SD.KPKLLPLELEKTAVQEYTITEFQPLYYVAESFNDAKEKVRNFAATIPRPFSVHYDPYTQRIEVLDNTQQLKILADSISSEVEILCSALQKLK.   451
DSASPNRVGFDLMRIMNTRYRIDTFQKTYFVIDSFKQLFDATA.PDFAPLYLQLADAQPWGAGDVAPDDLVLNAGDRQGWADTEDV..........   297
DSASPNRIGFDVHRIMRTRYRIDTFQKTYFVIDSFEQLFDATR.PDFTPLYEALGTLPTFGAGDVVDGDAVLNAGTREGWADTADI..........   313
DDPSPNRIGFDLERVMRTLYRIDDFQQVYFVIDSIQTLQEVTL.RDFGAIYERLASVSDIGVAEIVPGDAVLTRGT.QAYATAGGRLAGAAAG...   294
SD.EPLHQAFNPLEAMRTPYRIDILQPLYFVLPDLKRLFQLAQ.EDIMALVHEAMRLG.LHAPLFPPKQAA....................   262
EGKDAHHVPFDLETVMRTGYEIDKFQRAYFVLPSFDALRDAFQTADFEAIVARRKDQKALDPATV.................   275
 **    *      *** ** *!*  ** !**!*!     ** *   *    *          *    * *           **  *
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X non conserved
X ≥ 50% conserved