

MSAP|RAFDPLTAP|SGTNL|EASAGTGKTYG|AALFTRLIVLEQKSVERVLVFTKAATAELKTRLRARLDDVLQVLESKEIA
MSAPIRAFDPLTAPISGNTNLEASAGTGKTYGIAALFTRLIVLEQKSVERVLVFTKAATAELKTRLRARLDDVLQVLESKEIA
MSAPIRAFDPLTAPISGNTNLEASAGTGKTYGIAALFTRLIVLEQKSVERVLVFTKAATAELKTRLRARLDDVLQVLESKEIA

85
85

ELGDDT¹LS²DG³IAAYCAEH⁴EGD⁵TFLPALLE⁶QALQKES⁷RTRLIVRLKAA⁸IGQFD⁹NAAIY¹⁰TIHGFC¹¹QRILRDYAF¹²LCQAP¹³FDV¹⁴ELTE¹⁵

170
170

EDGDRLLVPAQDFWRERVS~~GD~~PVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETSWQTVCRLLPELEAGF
EDGDRLLVPAQDFWRERVS~~GD~~PVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETSWQTVCRLLPELEAGF
EDGDRLLVPAQDFWRERVS~~GD~~PVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETSWQTVCRLLPELEAGF

255
255

WRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPCLDKDTHERLLKLSSDKLEAGLKKGKTPDAAVF AELQKLADFGRD LNALEE
 WRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPCLDKDTHERLLKLSSDKLEAGLKKGKTPDAAVF AELQKLADFGRD LNALEE
 WRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPCLDKDTHERLLKLSSDKLEAGLKKGKTPDAAVF AELQKLADFGRD LNALEE

340
340

AEETMRIQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAENWEIALIDFQDTPDPLQYEIFQKIFI
AEETMRIQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAENWEIALIDFQDTPDPLQYEIFQKIFI
AEETMRIQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAENWEIALIDFQDTPDPLQYEIFQKIFI

425
425

ARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYSHAALIGSIGALFRLKERPFVLENIGYSEVGAARAESRLS
ARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYSHAALIGSIGALFRLKERPFVLENIGYSEVGAARAESRLS
ARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYSHAALIGSIGALFRLKERPFVLENIGYSEVGAARAESRLS

510
510

PKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIARALNEASGGRLNFKGRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSV
PKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIARALNEASGGRLNFKGRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSV
PKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIARALNEASGGRLNFKDRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSV

595
595

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus

680
680

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus

765
765

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus



850
850

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus

935
935

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus



1020
1020

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus



1105
1105

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1
NTDB id 1132 OK783 RS01905 WP 010951035.1
consensus



1190
1190

logo

NTDB id 74428 FYK59 RS01880 WP 071198096.1	1200
NTDB id 1132 OK783 RS01905 WP 010951035.1	1200
consensus	!!!!!!!!!!



1200
1200

-  non conserved
-  similar
-  ≥ 50% conserved