

logo

NTDB id 64364 THEMA RS01820 WP 004081293.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

MFSFFRRKKKQETPAL~~EE~~AQVQETA~~AAK~~VESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAGEAAER
.....
MFSFFRRKKKQETPAL~~EE~~AQVQETA~~AAK~~VESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAGEAAER

0
85

logo

NTDB id 64364 THEMA RS01820 WP 004081293.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

VE~~SA~~KEAVAETVGEAVGQVQEAVATTEEHKLMGWFDRKQGLQKTRETMFKSVVKVLKQKQKQGEETY~~EEL~~ETVITGDMVETTEY
.....
MGLFDFLKKGLQKTKE~~TFFGR~~VVKLLK~~GKK~~L~~DE~~TRE~~ELE~~ELLIQADVGVETTEY
VE~~SA~~KEAVAETVGEAVGQVQEAVATTEEHKLGWAARLQKGLAKSRDKMAKSLAGVFGGQIGEDLYEELTVLITGDMGMEATEY

55
170

logo

NTDB id 64364 THEMA RS01820 WP 004081293.1
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consensus

LMKRVYRGRDGNELRSLKEILYELLNPE~~TP~~L~~N~~YPTKPPFVIMYGYNGT~~GKTT~~SIGKLAKYFVQAGKSVLLAAGDT
.....
TILERLEEK.....DGDAL~~E~~SLKEI~~L~~EILNF.DTKLN.VPPEPPFVIMVGVNGT~~GKTT~~SCGKLAKM~~F~~VDEGKSVLLAAGDT
LMKDV~~RGR~~VSLKGLKDGNE~~L~~RGALKEALYDLIKPLEKPLVLPETKEPFVIMLAGINGAGKTTSIGKLAKYFVQAGKSVLLAAGDT
** * *****! ! * !!! * *** ** *! **** *!!!!!! *!!!! *!!!!!! *!!!! *!!!!!! *!!!!

130
255

logo

NTDB id 64364 THEMA RS01820 WP 004081293.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

FRAAA~~R~~EQLKAIWGERVYVTVISHSEGADPAAVAFDAVAHALARNKDVVLIIDTAGRLHTKKNLMEELR~~KV~~HRV~~V~~KKKIPDAPHETL
.....
FRAAAIEQLKAIWGERV~~G~~ATVISHSEGADPAAVAFDAVAHALARNKDVVLIIDTAGRLHTKKNLMEELR~~KV~~HRV~~V~~KKKIPDAPHETL
FRAAAIEQLQAWGGRNNVTVISQTG.DSAAVCFDAVQA~~AK~~ARGIDIVLADTAGRLPTQLHLMEELIKK~~V~~RVLQKAIPGAPHEIT
!!!!!! !!! !!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!!

215
339

logo

NTDB id 64364 THEMA RS01820 WP 004081293.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

VVLDANTGQNGWVQVKAIFKEAVNVGTIILTKLDGTAKGGITLALARDLGI~~PI~~KFIGVGEK~~E~~DLRPFDAEAFV~~E~~LLSE
.....
LVLDANTGQNGVQAKIFKEAVNVGTIILTKLDGTAKGGITLALARDLGI~~PI~~KFIGVGEK~~E~~DLRPFDAEAFV~~E~~LLSE
VVLDANIGQNAVNVKAFDDALGLTGLIVTKLDGTAKGGILALASDRPVVRYIGVGEKIDDLRPFDAEAFV~~E~~LLD.
*!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!! *!!!!

294
417

non conserved
 similar
 ≥ 50% conserved