logo



```
NTDB id 1323 RA0C RS07335 WP 004916218.1     .MLVKVYGSAIHGVSAQTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPGKKITINMAPADLRKEGSA   78
NTDB id 1271 LPP RS03220 WP 011213198.1      MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG   80
NTDB id 1248 GCO85 RS03150 WP 011213198.1    MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG   80
NTDB id 144749 U068 RS19480 WP 000058964.1   MSLSIVHTRAALGVNAPPITVEVHISKGLPGLTMVGLPETTVKEARDRVRSAIINSGYEYPAKKITINLAPADLPKEGGR   80
NTDB id 1153 A1552VC RS00115 WP 000521788.1  MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEFPAKRITVNLAPADLPKEGGR   80
NTDB id 1397 DSB67 RS15690 WP 005535577.1    MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR   80
NTDB id 1349 HI 1117 AAC22771.1              MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR   80
NTDB id 1387 A4U84 RS06900 WP 020457569.1    MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR   80
consensus                                    **!*** ***** !* !* *** !!**** !***** !!!***** !!***!***!**!***** !*** !!*!**!!*!*!*!**
```

logo



```
NTDB id 1323 RA0C RS07335 WP 004916218.1     YDLSIALGILAASGQQIIAPEIERVLIMGELSLDGGLQPIKGVLPIAIRAREEGFKGIILPKQNTREAAIVNDLEVYGVEN  158
NTDB id 1271 LPP RS03220 WP 011213198.1      FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLIIANANAAEASLTGHQKVFTANN  159
NTDB id 1248 GCO85 RS03150 WP 011213198.1    FDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLIIANANAAEASLTGHQKVFTANN  159
NTDB id 144749 U068 RS19480 WP 000058964.1   YDLPIAIALLAASEQLTANKLDEYELVGELALTGALRGVPGAISSATEAIKS.GRKIIVAKDNEDEVGLINGEGCLIADH  159
NTDB id 1153 A1552VC RS00115 WP 000521788.1  FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS  159
NTDB id 1397 DSB67 RS15690 WP 005535577.1    FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS  159
NTDB id 1349 HI 1117 AAC22771.1              FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT  159
NTDB id 1387 A4U84 RS06900 WP 020457569.1    FDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIVPQQNANEVSLVSNTQTYCAST  159
consensus                                    *!!*!!***!!!!*!** *  ***** !!*!*! **** ***** **! *  * ***  !* ** **  * **
```

logo

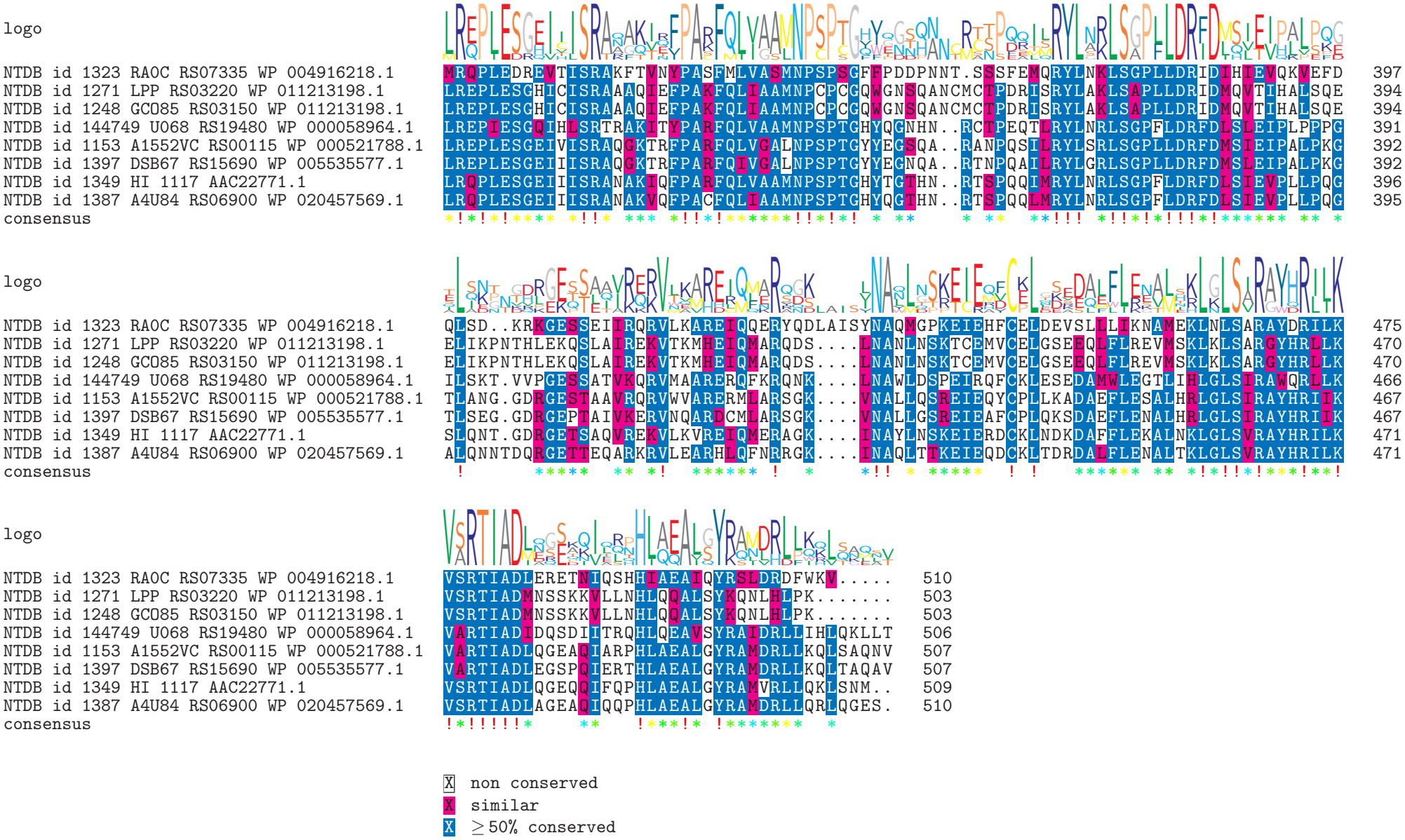


```
NTDB id 1323 RA0C RS07335 WP 004916218.1     IKEVIDFFNENCPLEPTKVNTREEFHKRVNLFPFDFSEVKGQETAKRAMEVAAAGGHNILLIGPPGSGKTMLAKRIPSIL  238
NTDB id 1271 LPP RS03220 WP 011213198.1      LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL  235
NTDB id 1248 GCO85 RS03150 WP 011213198.1    LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL  235
NTDB id 144749 U068 RS19480 WP 000058964.1   LQAVCAFLEGKHALERPKPTDA.....VSRALQHDLSDVIGQEQGKRGLEITAAGGHNLLLIGPPGTGKTMLASRINGLL  234
NTDB id 1153 A1552VC RS00115 WP 000521788.1  LLEVCADLCGQQTLSLFQSSPSV....QQVSQTRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL  235
NTDB id 1397 DSB67 RS15690 WP 005535577.1    LLEVCAELCGQHQLNLYQTPKKK....ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL  235
NTDB id 1349 HI 1117 AAC22771.1              LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL  239
NTDB id 1387 A4U84 RS06900 WP 020457569.1    LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALIIAASGQHNLLFLGPPGTGKTMLASRLADLL  238
consensus                                    *  *!*  **      !                !*****!!* *!***  **!*!  !***  *!*!!*!!!!*!*!*   *!
```

logo



```
NTDB id 1323 RA0C RS07335 WP 004916218.1     PPLTLKEALETTKIHSVAGKMGAETSLMTIRPFRSPHHTISDVALVGGGSYPQPGEISLAHNGVLFLDEMPEFKRTVLEV  318
NTDB id 1271 LPP RS03220 WP 011213198.1      PELSETQALECAAINSIRGKLPDF.REWRLPPFRAPHHTASPVALVGGGNPPKPGEISLAHHGVLFLDELPEFNRQVLET  314
NTDB id 1248 GCO85 RS03150 WP 011213198.1    PELSETQALECAAINSIRGKLPDF.REWRLPPFRAPHHTASPVALVGGGNPPKPGEISLAHHGVLFLDELPEFNRQVLET  314
NTDB id 144749 U068 RS19480 WP 000058964.1   PDLSNEEALESAAILSLVNAESVQ.KQWRQRPFRSPHHSASLTAMVGGGAIPGPGEISLAHNGVLFLDELPEFERRTLDA  313
NTDB id 1153 A1552VC RS00115 WP 000521788.1  PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS  314
NTDB id 1397 DSB67 RS15690 WP 005535577.1    PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS  314
NTDB id 1349 HI 1117 AAC22771.1              PEMTDLEAIETASVTSLVQNELNF.HNWKQRPFRAPHHSASMPALVGGGTIPKPGEISLATNGVLFLDELPEFERKVLDA  318
NTDB id 1387 A4U84 RS06900 WP 020457569.1    PEMEDDEAIETASVTSLVQNELNF.QNWKKRPFRSPHHSASMVALVGGGSIPKPGEISLAHNGVLFLDELPEFERKVLDA  317
consensus                                    !**** *!*!** *  !* *  *      *** *!!!*!!!**!* !*!!!!**!*!!!!!!!**!*!!!!!*!!!*!**!*
```


logo
NTDB id 1323 RA0C RS07335 WP 004916218.1 MRQPLEDREVTISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDIHIEVQKVEFD 397
NTDB id 1271 LPP RS03220 WP 011213198.1 LREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQANCMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQE 394
NTDB id 1248 GCO85 RS03150 WP 011213198.1 LREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQANCMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQE 394
NTDB id 144749 U068 RS19480 WP 000058964.1 LREPIESGQIHLSRTRAKITYPARFQLVAAMNPSPTGHYQGNHN..RCTPEQTLRYLNRLSGPFLDRFDLSLEIPLPPPG 391
NTDB id 1153 A1552VC RS00115 WP 000521788.1 LREPLESGEIVISRAQGKTRFPARFQLVGALNPSPTGYYEGSQA..RANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG 392
NTDB id 1397 DSB67 RS15690 WP 005535577.1 LREPLESGEIIISRAQGKTRFPARFQIVGALNPSPTGYYEGNQA..RTNPQAILRYLGRLSGPLLDRFDMSLEIPALPKG 392
NTDB id 1349 HI 1117 AAC22771.1 LRQPLESGEIIISRANAKTQFPARFQLVAAMNPSPTGHYTGTHN..RTSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG 396
NTDB id 1387 A4U84 RS06900 WP 020457569.1 LRQPLESGEIIISRANAKVQFPACFQLIAAMNPSPTGHYQGTHN..RTSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG 395
consensus
logo
NTDB id 1323 RA0C RS07335 WP 004916218.1 QLSD..KRKGESSEITRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILK 475
NTDB id 1271 LPP RS03220 WP 011213198.1 ELIKPNTHLEKQSLAIREKVTKMHEIQMARQDS....LNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK 470
NTDB id 1248 GCO85 RS03150 WP 011213198.1 ELIKPNTHLEKQSLAIREKVTKMHEIQMARQDS....LNANLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLK 470
NTDB id 144749 U068 RS19480 WP 000058964.1 ILSKT.VVPGESSATVKQRVMAARERQFKRQNK....LNAWLDSPEIRQFCKLESEDAMWLEGTLIHLGLSIRAWQRLLK 466
NTDB id 1153 A1552VC RS00115 WP 000521788.1 TLANG.GDRGESTAAVRQRVWVARERMLARSGK....VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK 467
NTDB id 1397 DSB67 RS15690 WP 005535577.1 TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK....VNALLGSREIEAFCPLQKSDAEFLENALHRLGLSIRAYHRIIK 467
NTDB id 1349 HI 1117 AAC22771.1 SLQNT.GDRGETSAQVREKVLKVREIQMERAGK....INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK 471
NTDB id 1387 A4U84 RS06900 WP 020457569.1 ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK....INAQLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK 471
consensus
logo
NTDB id 1323 RA0C RS07335 WP 004916218.1 VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV..... 510
NTDB id 1271 LPP RS03220 WP 011213198.1 VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK..... 503
NTDB id 1248 GCO85 RS03150 WP 011213198.1 VSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK..... 503
NTDB id 144749 U068 RS19480 WP 000058964.1 VARTIADIDQSDIITRQHLQEAVSYRAIDRLLIHLQKLLT 506
NTDB id 1153 A1552VC RS00115 WP 000521788.1 VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV 507
NTDB id 1397 DSB67 RS15690 WP 005535577.1 VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV 507
NTDB id 1349 HI 1117 AAC22771.1 VSRTIADLQGEQQIFQPHLAEALGYRAMVRLLQKLSNM.. 509
NTDB id 1387 A4U84 RS06900 WP 020457569.1 VSRTIADLAGEAQIQQPHLAEALGYRAMDRLLQRLQGES. 510
consensus
X non conserved
X similar
X ≥ 50% conserved