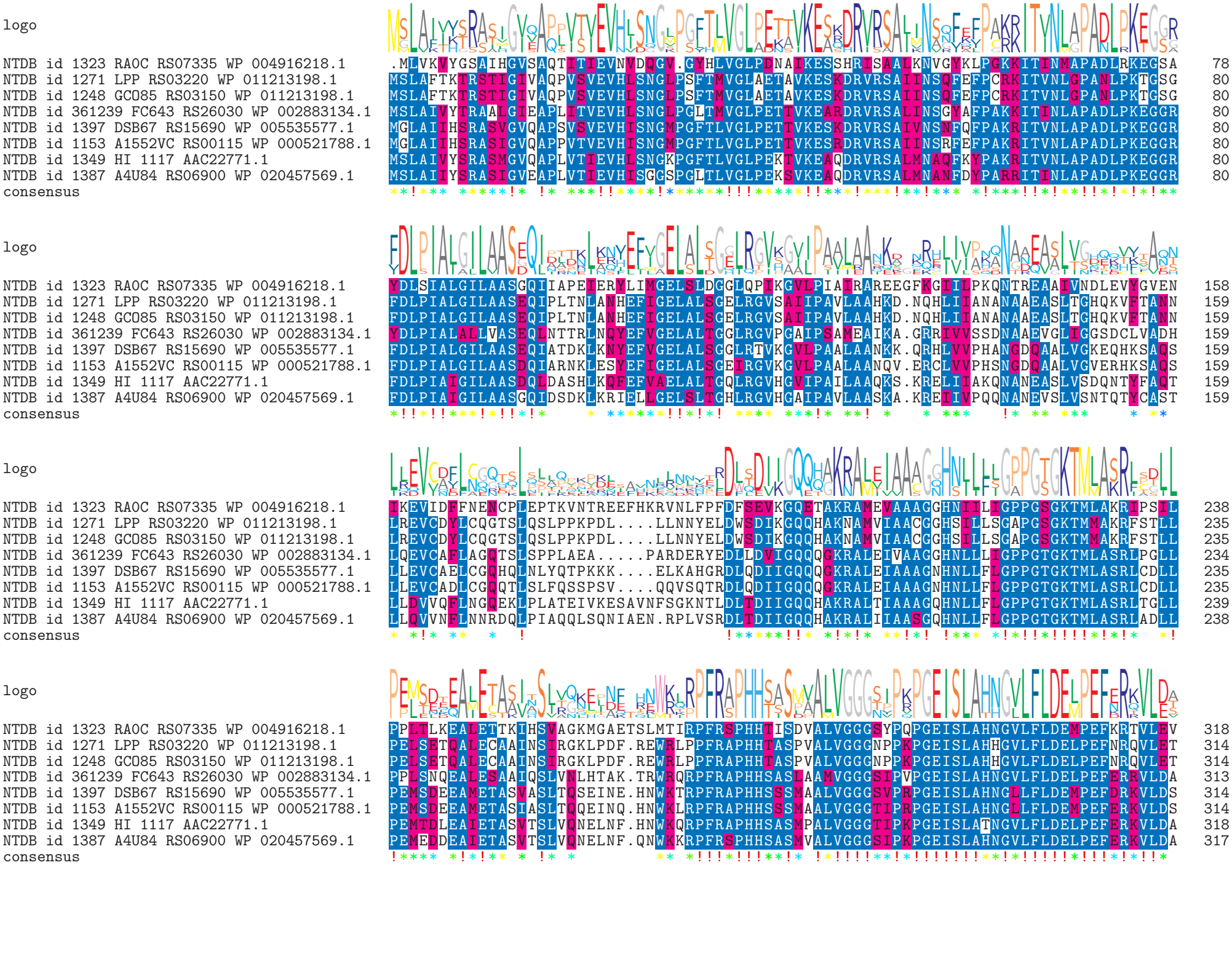

logo
NTDB id 1323 RA0C RS07335 WP 004916218.1 .MLVKVYGSAIHGVSAQTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPGKKITINMAPADLRKEGSA 78
NTDB id 1271 LPP RS03220 WP 011213198.1 MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG 80
NTDB id 1248 GCO85 RS03150 WP 011213198.1 MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG 80
NTDB id 361239 FC643 RS26030 WP 002883134.1 MSLAIVYTRAALGIEAPLITVEVHLSNGLPGLTMVGLPETTVKEARDRVRSALINSGYAFPAKKITINLAPADLPKEGGR 80
NTDB id 1397 DSB67 RS15690 WP 005535577.1 MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR 80
NTDB id 1153 A1552VC RS00115 WP 000521788.1 MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEFPAKRITVNLAPADLPKEGGR 80
NTDB id 1349 HI 1117 AAC22771.1 MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR 80
NTDB id 1387 A4U84 RS06900 WP 020457569.1 MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR 80
consensus
logo
YDLSIALGILAASGQIIAPEIERYLIMGELSLDGGLQPIKGVLPIAIRAREEGFKGIILPKQNTREAAIVNDLEVYGVEN 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 361239 FC643 RS26030 WP 002883134.1 YDLPIALALLVASEQLNTTRLNQYEFVGELALTGGLRGVPGAIPSAMEAIKA.GRRIVVSSDNAAEVGLIGGSDCLVADH 159
NTDB id 1397 DSB67 RS15690 WP 005535577.1 FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAANKK.QRHLVVPHANGDQAALVGKEQHKSAQS 159
NTDB id 1153 A1552VC RS00115 WP 000521788.1 FDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS 159
NTDB id 1349 HI 1117 AAC22771.1 FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT 159
NTDB id 1387 A4U84 RS06900 WP 020457569.1 FDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRETIVPQQNANEVSLVSNTQTYCAST 159
consensus
logo
IKEVIDFFNENCPLEPTKVNTREEFHKRVNLFPFDFSEVKGQETAKRAMEVAAAGGHNILLIGPPGSGKTMLAKRIPSIL 238
NTDB id 1271 LPP RS03220 WP 011213198.1 LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSILLSGAPGSGKTMMAKRFSTLL 235
NTDB id 1248 GCO85 RS03150 WP 011213198.1 LREVCDYLCQGTSLQSLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACGGHSTLLSGAPGSGKTMMAKRFSTLL 235
NTDB id 361239 FC643 RS26030 WP 002883134.1 LQEVCAFLAGQTSLSPPLAEA.....PARDERYEDLLDVIGQQQGKRALEIVAAGGHNLLLIGPPGTGKTMLASRLPGLL 234
NTDB id 1397 DSB67 RS15690 WP 005535577.1 LLEVCAELCGGQHQLNLYQTPKKK....ELKAHGRDLQDIIGQQQGKRALEIAAAGNHNLLFLGPPGTGKTMLASRLCDLL 235
NTDB id 1153 A1552VC RS00115 WP 000521788.1 LLEVCADLCGGQQTLSLFQSSPSV....QQVSQTRDLQDIIGQQQGKRALEIAAAGQHNLLFLGPPGTGKTMLASRLCDLL 235
NTDB id 1349 HI 1117 AAC22771.1 LLDVVQFLNGQEKLPLATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAGQHNLLFLGPPGTGKTMLASRLTGLL 239
NTDB id 1387 A4U84 RS06900 WP 020457569.1 LLQVVNFLNNRDQLPIAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALIIAASGQHNLLFLGPPGTGKTMLASRLADLL 238
consensus
logo
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 361239 FC643 RS26030 WP 002883134.1 PPLSNQEALESAAIQSLVNLHTAK.TRWRQRPFRAPHHSASLAAMVGGGSIPVPGEISLAHNGVLFLDELPEFERRVLDA 313
NTDB id 1397 DSB67 RS15690 WP 005535577.1 PEMSDEEAMETASVASLTQSEINE.HNWKTRPFRAPHHSSSMAALVGGGSVPRPGEISLAHNGLLFLDEMPEFDRKVLDS 314
NTDB id 1153 A1552VC RS00115 WP 000521788.1 PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSSMAALVGGGTIPRPGEISLAHNGLLFLDEMPEFERKVLDS 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 361239 FC643 RS26030 WP 002883134.1  LREPIESGKIHISRSRAKIDYPARFQLIAAMNPSPTGHYQGKHNR..ASPEQTLRYLGRLSGPFLDRFDLSLEIPLPPPG   391
NTDB id 1397 DSB67 RS15690 WP 005535577.1    LREPLESGEIIISRAQGKTRFPARFQIVGALNPSPTGYYEGNQAR..TNPQAILRYLGRLSGPLLDRFDMSLEIPALPKG   392
NTDB id 1153 A1552VC RS00115 WP 000521788.1  LREPLESGEIVISRAQGKTRFPARFQLVGALNPSPTGYYEGSQAR..ANPQSILRYLSRLSGPLLDRFDMSIEIPALPKG   392
NTDB id 1349 HI 1117 AAC22771.1              LRQPLESGEIIISRANAKTQFPARFQLVAAMNPSPTGHYTGTHNR..TSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG   396
NTDB id 1387 A4U84 RS06900 WP 020457569.1    LRQPLESGEIIISRANAKVQFPACFQLIAAMNPSPTGHYQGTHNR..TSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG   395
consensus                                    *!*!*!**** !!!* *** *!!*!****** *!*!*!*  * **  *   **  **!!! *!!*!*!!!*!****** ** *
```

logo



```
NTDB id 1323 RA0C RS07335 WP 004916218.1     QLSD..KRKGESSEIIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILK   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 361239 FC643 RS26030 WP 002883134.1  ILSQG.SQGEESSATVRQRVLAARERQMLRQNK....LNAHLENREMKNCCRLRREDAVWLEQTLTQLGLSIRAWQRLLK   466
NTDB id 1397 DSB67 RS15690 WP 005535577.1    TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK....VNALLGSREIEAFCPLQKSDAEFLENALHRLGLSIRAYHRIIK   467
NTDB id 1153 A1552VC RS00115 WP 000521788.1  TLANG.GDRGESTAAVRQRVWVARERMLARSGK....VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK   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 361239 FC643 RS26030 WP 002883134.1  VARTIADLAEVEEIERCHLQEALSYRAIDRMLNHLQKMMA   506
NTDB id 1397 DSB67 RS15690 WP 005535577.1    VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV   507
NTDB id 1153 A1552VC RS00115 WP 000521788.1  VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV   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