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|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 1323 RAOC RS07335 WP 004916218.1    | MSLAIVYSRASIGVAPLVTVIEVHLSNGPGFTLVGLPETTVKESDRVRSALNSQFEYPAKRITYNLAPADLPKEGGR      | 78 |
| NTDB id 1271 LPP RS03220 WP 011213198.1     | .MLVKKVYGSIAIHGVSAQTITIEVNVDDGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPGKKITINMAPADLRKEGSA | 80 |
| NTDB id 1248 GC085 RS03150 WP 011213198.1   | MSLAFTTKTRSTIGIVAQPVSVSEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTSG  | 80 |
| NTDB id 1446 BW25113 RS19560 WP 000058964.1 | MSLAFTTKTRSTIGIVAQPVSVSEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKGTSG  | 80 |
| NTDB id 1153 A1552VC RS00115 WP 000521788.1 | MSLSIVHTRAALGVNAPPITVEVHISKGLPGLTMVGLPETTVKEARDRVRSAINSGYEYPAKKITINLAPADLPKEGGR    | 80 |
| NTDB id 1397 DSB67 RS15690 WP 005535577.1   | MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAINSRFEFPAKRITVNLAPADLPKEGGR    | 80 |
| NTDB id 95637 ACT74 RS10120 WP 014167482.1  | MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAINVSNFQFPAKRITVNLAPADLPKEGGR   | 80 |
| NTDB id 1349 HI 1117 AAC22771.1             | .....                                                                              | 0  |
| NTDB id 1460 ASU2 RS09990 WP 015674260.1    | MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPAKRITVNLAPADLPKEGGR   | 80 |
| NTDB id 1387 A4U84 RS06900 WP 020457569.1   | MSLAIVYSRASIGVEAPLVTIEVHLSNGKPGLTIVGLPETTVKEAGDRVRSALMNANFMYPQRRITINLAPADLPKEGGR   | 80 |
| consensus                                   | MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPARRITINLAPADLPKEGGR   | 80 |
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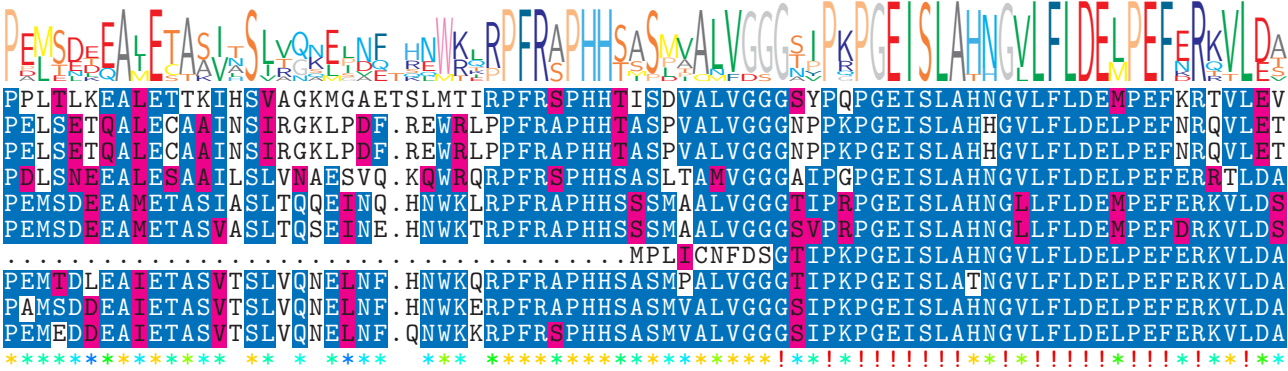
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| NTDB id 1323 RAOC RS07335 WP 004916218.1    | FDLPIALGILAASQELDADKKNYEYELALTGIRGVGYIPAXLAALKRLLIYANANAEASLVGSGEYYAASS                | 158 |
| NTDB id 1271 LPP RS03220 WP 011213198.1     | YDLSTIALGILAASGQIIAPEIERLYLIMGELSLDGGQLPQIKGVLPPIAIRAREEGFKGIIILPKQNTREAAIVNDLEVIYGVEN | 159 |
| NTDB id 1248 GC085 RS03150 WP 011213198.1   | FDPPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN       | 159 |
| NTDB id 1446 BW25113 RS19560 WP 000058964.1 | FDPPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN       | 159 |
| NTDB id 1153 A1552VC RS00115 WP 000521788.1 | YDLPPIATALLAASEQLTANKLDEYELVDELALTGALRGVPGAIISSATEAIIKS.GRKTIIVAKDNEDEVGLINGEGCLIADH   | 159 |
| NTDB id 1397 DSB67 RS15690 WP 005535577.1   | FDPPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAAALANQV.ERCLVVPHSNGDQAALVGVERHKSAAQS      | 159 |
| NTDB id 95637 ACT74 RS10120 WP 014167482.1  | FDPPIALGILAASEQIATDKLKNYEFVDELALSGGLRRTVKGVLPAAALANKK.QRHLVVPHANGDQAALVGKEQHKSAAQS     | 159 |
| NTDB id 1349 HI 1117 AAC22771.1             | .....                                                                                  | 0   |
| NTDB id 1460 ASU2 RS09990 WP 015674260.1    | FDPPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKS.KRELIIIAKQNAEASLVSDQNTYFAQT       | 159 |
| NTDB id 1387 A4U84 RS06900 WP 020457569.1   | FDPPIAIGILAASGQMDSDRLKQFEFLGELALTGTLRGVHGVIPAVISAIEKA.KRQMIIARPVNEASLVSNAETYFASS       | 159 |
| consensus                                   | FDPPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KREIIVPQQNAEVSLSVNTQTYCAST        | 159 |
|                                             | *****                                                                                  |     |

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| NTDB id 1323 RAOC RS07335 WP 004916218.1    | LLLEVCDLFNCGRTSPLAQCPRLAEENLYELRLSDIIGQQAQKRALIAAAGGNLLFLGPPGTGKTMASRLD            | 238 |
| NTDB id 1271 LPP RS03220 WP 011213198.1     | IKKEVIDFFNENCPLPTKVNTREEFHKRVNLPFPDFSEVKGQETAKRAMEVAAAGGHNIIILIGPPGSGKTMIAKRIPSIIL | 235 |
| NTDB id 1248 GC085 RS03150 WP 011213198.1   | LREVCDYLCQGTSLQSLPPKPDLLNNYELDWSDIKGQQAQKRNAMVIAACGGHSLLSGAPGSGKTMIAKRIFSTLL       | 235 |
| NTDB id 1446 BW25113 RS19560 WP 000058964.1 | LQAVCAFLEGKHALERPAPT.DAVSRALQHDLSDVIGQEQQKRGLEITAAGGHNLLLLIGPPGTGKTMASRLINGLL      | 234 |
| NTDB id 1153 A1552VC RS00115 WP 000521788.1 | LLEVCAIDLQCGQTLSLIFQSSPSV.QQVSQTRDLQDIIGQQQKQKRALEIAAAGNHNLLFLGPPGTGKTMASRLCDLL    | 235 |
| NTDB id 1397 DSB67 RS15690 WP 005535577.1   | LLEVCAELCQGQHLNLYQTPKKK.ELKAHGRDLQDIIGQQQKQKRALEIAAAGNHNLLFLGPPGTGKTMASRLCDLL      | 235 |
| NTDB id 95637 ACT74 RS10120 WP 014167482.1  | .....                                                                              | 0   |
| NTDB id 1349 HI 1117 AAC22771.1             | LLDVVQFLNGQEKLPATEIVKESAVNFSGKNTLLTDIIGQQAQKRALIAAAGQHNLLFLGPPGTGKTMASRLTGILL      | 239 |
| NTDB id 1460 ASU2 RS09990 WP 015674260.1    | LLQVVNFNKRDSLPAAQIPQKTQE.IQPLVKRDLTDIIGQQAQKRALIAAAGQHNLLFLGPPGTGKTMASRLADLL       | 238 |
| NTDB id 1387 A4U84 RS06900 WP 020457569.1   | LLQVVNFNLRDQLPIAQQLSQNIIE.NRPLVSRDLTDIIGQQAQKRALIAASGQHNLLFLGPPGTGKTMASRLADLL      | 238 |
| consensus                                   | LLQVVNFNLRDQLPIAQQLSQNIIE.NRPLVSRDLTDIIGQQAQKRALIAASGQHNLLFLGPPGTGKTMASRLADLL      | 238 |
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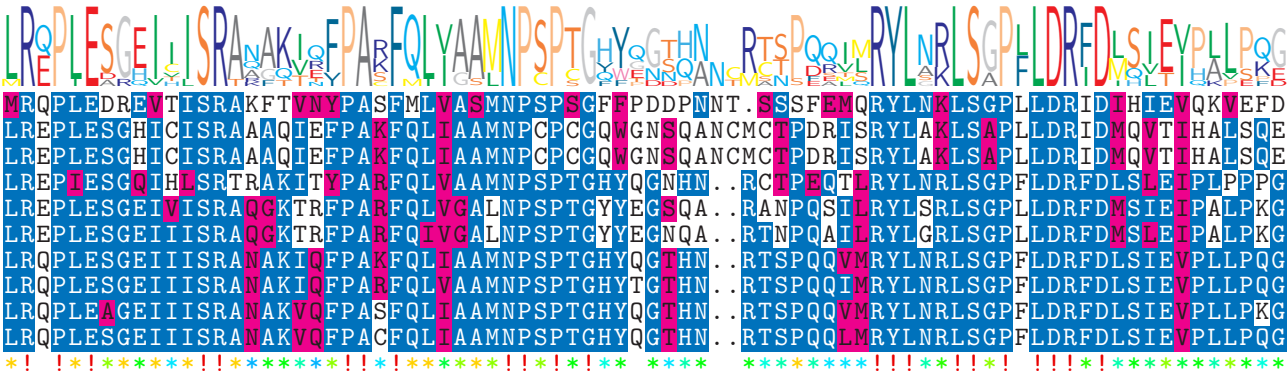
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NTDB id 1397 DSB67 RS15690 WP 005535577.1  
NTDB id 95637 ACT74 RS10120 WP 014167482.1  
NTDB id 1349 HI 1117 AAC22771.1  
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NTDB id 1387 A4U84 RS06900 WP 020457569.1  
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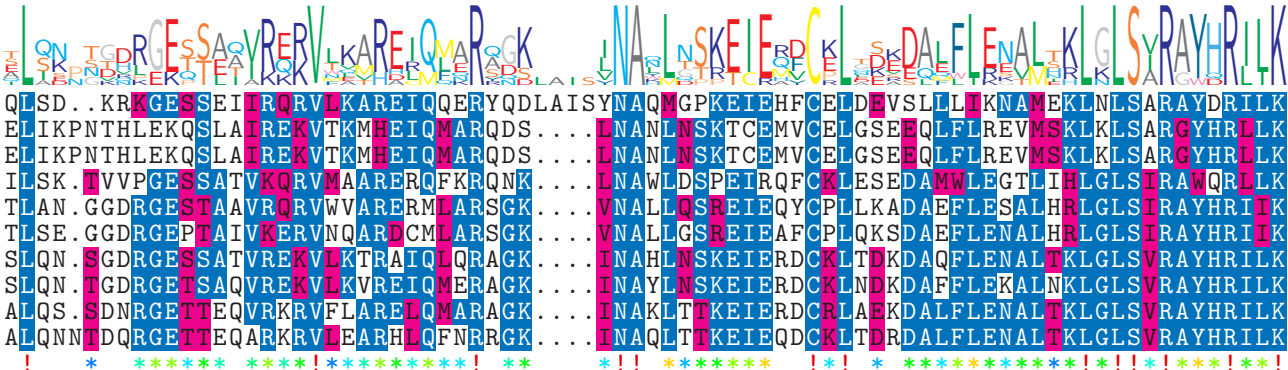
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NTDB id 1323 RAOC RS07335 WP 004916218.1  
NTDB id 1271 LPP RS03220 WP 011213198.1  
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NTDB id 1460 ASU2 RS09990 WP 015674260.1  
NTDB id 1387 A4U84 RS06900 WP 020457569.1  
consensus



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| NTDB id 1323 RAOC RS07335 WP 004916218.1    | VSRTIADLERETNIQSHHIAEATQYRSLDRDFWKV..... | 510 |
| NTDB id 1271 LPP RS03220 WP 011213198.1     | VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....  | 503 |
| NTDB id 1248 GC085 RS03150 WP 011213198.1   | VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....  | 503 |
| NTDB id 1446 BW25113 RS19560 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 95637 ACT74 RS10120 WP 014167482.1  | VSRTIADLDGEQHINQCHLAEALGYRAMDRLLQLAKNSA  | 234 |
| NTDB id 1349 HI 1117 AAC22771.1             | VSRTIADLQGEQQIFQPHLAEALGYRAMVRLQLSNM..   | 509 |
| NTDB id 1460 ASU2 RS09990 WP 015674260.1    | VSRTIADLANEPNIQIHLAEALGYRAMDRLLQLQGEN.   | 509 |
| NTDB id 1387 A4U84 RS06900 WP 020457569.1   | VSRTIADLAGEAQIQQPHLAEALGYRAMDRLLQLQGES.  | 510 |
| consensus                                   | !*!!!!!* ** ** !***!***!***** **         |     |

- X

 non conserved
- X

 similar
- X

 ≥ 50% conserved