

|           |                                       |                                                                                                                 |    |
|-----------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|----|
| NTDB id   | 1323 RAOC RS07335 WP 004916218.1      | .MLVVKVYGS <del>A</del> IHHGVS <del>A</del> QTTITTEVNVDQGV.GYHLVLGLPDNAIKESSHRISAAIKNVGKYLPGKKKITINMAPADLRKEGSA | 78 |
| NTDB id   | 1271 LPP RS03220 WP 011213198.1       | MSLAFTKTRSTIGTVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDVRSAIINSQFEFPCRKITVNLGPANLPKTGSG                                 | 80 |
| NTDB id   | 1248 GC085 RS03150 WP 011213198.1     | MSLAFRTKRSTIGTIVAQPVSVEVHLSNGLPSTFMVGLAETAIVKESKDVRSAINSQFEFPCRKITVNLGPANLPKTGSG                                | 80 |
| NTDB id   | 1045475 ACEQ38 RS14700 WP 078222365.1 | MSLAVIRSRALAGIDAPAVSVEVHLANGLTPTFTVLGLPDTEVKESKDVRRAAIQNRSRFEFPARRITVNLAPADLPKESGR                              | 80 |
| NTDB id   | 1153 A1552VC RS00115 WP 000521788.1   | MGLAIIHSRASIGVQAPPVTVEVHISNGMPGGFTLVGLPETTVKESRDVRSAIINSRFEFPAKRITVNLAPADLPKEGGR                                | 80 |
| NTDB id   | 1397 DSB67 RS15690 WP 005535577.1     | MGLAIIHSRASVGVQAPSVEVHISNGMPGGFTLVGLPETTVKESKDVRSAIVNSNFQFPARKRITVNLAPADLPKEGGR                                 | 80 |
| NTDB id   | 1387 A4U84 RS06900 WP 020457569.1     | MSLAIIYSRASIGVEAPLVITEVHTSGSPGLTLVLPEKS VKEAQRDVRSAIMLNANFDYPARRITINLAPADLPKEGGR                                | 80 |
| NTDB id   | 1349 HI 1117 AAC22771.1               | MSLAIIVYSRASIMGVQAPLVITEVHLSNGLPGFTLVGLPEKTVKEAQDRVRSAIMLNANQFKVPARKRITVNLAPADLPKEGGR                           | 80 |
| consensus |                                       | * * ! * * * * * * ! * ! * * * * * * ! * ! * * * * * ! * ! * * * * * ! * ! * * * * *                             |    |

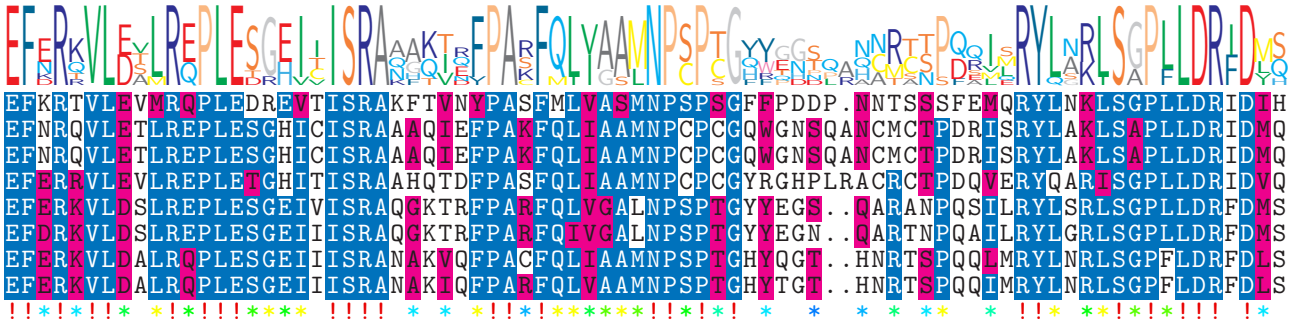
[illegible]

|                 |                                |                         |                        |                                                             |               |     |
|-----------------|--------------------------------|-------------------------|------------------------|-------------------------------------------------------------|---------------|-----|
| NTDB id 1323    | RAOC RS07335 WP 004916218.1    | DLEVYGVENIKVEIDFFNENCPL | EPTKVNTREEFHKRVNLFPPF  | DFSEVKGQETAKRAMEVAAAGGHNII                                  | LILIGPPGSGKTM | 229 |
| NTDB id 1271    | LPP RS03220 WP 011213198.1     | HQKVETANNLREVCDYLCQGTSL | QSLPQPKPDL...LLNNYELDW | SDIKGGQGHAKNAMVIAACGGHS                                     | ILLSGAPGSGKTM | 226 |
| NTDB id 1248    | GC085 RS03150 WP 011213198.1   | HQKVETANNLREVCDYLCQGTSL | QSLPQPKPDL...LLNNYELDW | SDIKGGQGHAKNAMVIAACGGHS                                     | ILLSGAPGSGKTM | 226 |
| NTDB id 1045475 | ACEQ38 RS14700 WP 078222365.1  | GTRVLVPARTLIEVCDHLSAPDR | KLAPAAP...APVGTGVRYPL  | DLADVRGQPQARRALEVAAAGGHS                                    | MIIGPPGTGKSM  | 236 |
| NTDB id 1153    | A1552VC RS00115 WP 000521788.1 | VERHKSAGSLIEVCADLCGQQT  | SLFQSSPSV...QQVSQTR    | DLQDIIGQQQCKRALEIAAAGNHN                                    | LFLGPPGTGKTM  | 226 |
| NTDB id 1397    | DSB67 RS15690 WP 005535577.1   | KEQHKSAGSLIEVCAELCGQHQL | NLYQTPKKK...ELKAHGR    | DLQDIIGQQQCKRALEIAAAGNHN                                    | LFLGPPGTGKTM  | 226 |
| NTDB id 1387    | A4U84 RS06900 WP 020457569.1   | NTQTVCASILLQVNVFLNNRDQL | PIAQQLSQNIAEN.RPLVSR   | DLTDIIGQQHAKRALITIAASGQH                                    | NLFLGPPGTGKTM | 229 |
| NTDB id 1349    | HI 1117 AAC22771.1             | DQNTYFAQTLLDVVQFLNGQEK  | LPLATEIVKESAVNFSGKNL   | DLTDIIGQQHAKRALITIAAAGQH                                    | NLFLGPPGTGKTM | 230 |
| consensus       |                                | * * * * *               | * * * *                | ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * |               |     |

|           |         |                                |                                                                                                              |     |
|-----------|---------|--------------------------------|--------------------------------------------------------------------------------------------------------------|-----|
| NTDB id   | 1323    | RAOC RS07335 WP 004916218.1    | LAKRPSILPPIITLKEAETTKHSVAGKMGAEETSLMTIRPFRRSPHHTISDVALVGGSYPQKPGEISLAHNGLVFLDEMP                             | 309 |
| NTDB id   | 1271    | LPP RS03220 WP 011213198.1     | MAKRFFSTLLPELSETGALECAAINSTRGKLPLDFREWRLPPFRAPHHTASPVALVGGNPNPKPGEISLAHHGVFLFDELDP                           | 305 |
| NTDB id   | 1248    | GC085 RS03150 WP 011213198.1   | MAKRFFSTLLPELSETGALECAAINSTRGKLPLDFREWRLPPFRAPHHTASPVALVGGNPNPKPGEISLAHHGVFLFDELDP                           | 305 |
| NTDB id   | 1045475 | ACEQ38 RS14700 WP 078222365.1  | LAQRFPGLLPDMGDDEALSAAAMSLTTRGFDAQRWKVRPFRRAPHHTASAVAMVGGGTNRPGEISLAHQGVFLFDELDP                              | 315 |
| NTDB id   | 1153    | A1552VC RS00115 WP 000521788.1 | LASRIICDLLPEMSDEEAMETASIASLTQQEI.NQHNNWKLPRPFRRAPHHSSSMAALVGGSITIPRGEISLAHNGLLFLDEMP                         | 305 |
| NTDB id   | 1397    | DSB67 RS15690 WP 005535577.1   | LASRIICDLLPEMSDEEAMETASVASLTQSEI.NEHNNWKLPRPFRRAPHHSSSMAALVGGSIVPRPGEISLAHNGLLFLDEMP                         | 305 |
| NTDB id   | 1387    | A4U84 RS06900 WP 020457569.1   | LASRIICADLLPEMEDDEAMETASVTSLVQNEL.NFQNNWKKRPFRSPHHSASMVALVGGSITIPKGEISLAHNGLVFLFDELDP                        | 308 |
| NTDB id   | 1349    | HI 1117 AAC22771.1             | LASRIICGLLPEMIDLEAITETASVTSLVQNEL.NFHNNWKKRPFRAPHHSSAMPALVGGSITIPKGEISLATNGVLFLDELDP                         | 309 |
| consensus |         |                                | *! ! * * ! ! * * * * * ! * * * * * ! * * * * * * * * * * * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * |     |

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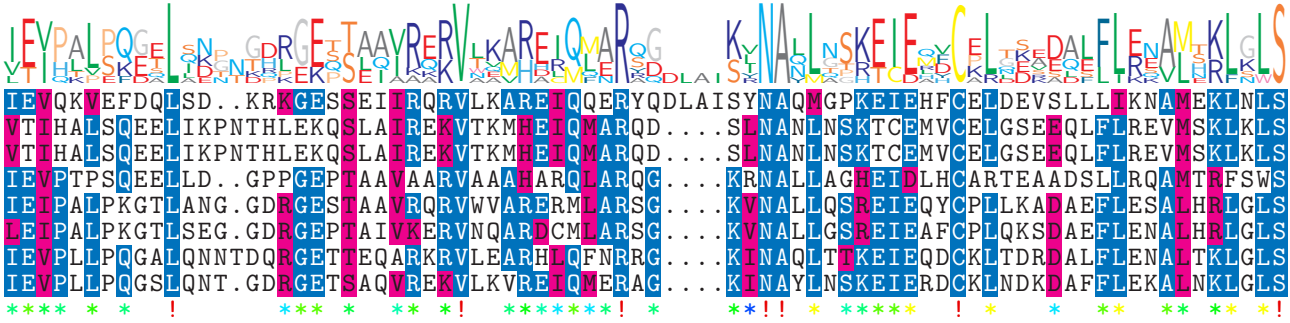
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NTDB id 1349 HI 1117 AAC22771.1  
consensus



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consensus



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NTDB id 1271 LPP RS03220 WP 011213198.1  
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NTDB id 1349 HI 1117 AAC22771.1  
consensus



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☒ non conserved  
☒ similar  
☒ ≥ 50% conserved