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|---------------------------------------------|--------------------------------------------------------------------------------------|----|
| NTDB id 586 KW2 RS10855 WP 011836048.1      | ..MVQKKKAQELIQKAIEMEASDIYLIASGNLYKTIYIRQQLGRTLIEEVNQEIGLALLTHFKFLAGMNTGERRRVQLGACW   | 78 |
| NTDB id 315508 D5R92 RS06430 WP 003098801.1 | ..MTIQSLGKEVIKMAADDLKAQDIYIIPEGDDYKIHMRIDGERRRIESFDGAQMPQLISHFKYLSGMNVGEKRRCAQLGACD  | 78 |
| NTDB id 584 DLJ51 RS00890 WP 019777327.1    | MVEVQELGKELIRQAVEEQAQDIYLLPKPAVYKIYLRFGKEKRHLIQTCPPQEAAGLISHFKFLAGMNVGEKRRCAQLGACD   | 80 |
| NTDB id 385 SMU RS09035 WP 002263435.1      | ..MVQKLGKRIIAEAVQNKAQDIYIIPKKESYELYMRIGNERRFIDVDHDFMANLISHFKFVAGMNVGEKRRSQLGSCD      | 78 |
| NTDB id 394 FSA28 RS09405 WP 002291652.1    | ..MVQKLGKRIIAEAVQNKAQDIYIIPKKESYELYMRIGNERRFIDVDHDFMANLISHFKFVAGMNVGEKRRSQLGSCD      | 78 |
| NTDB id 429 SGO RS09420 WP 012130942.1      | ..MVQKIAQAIIVRQAKEECAQDIYFVPKDDCYELYMRIIGDERRFIQTIDYDFDQLAAVISHFKFLAGMNVGEKRRSQLGSCD | 78 |
| NTDB id 500 SM12261 RS00945 WP 000249545.1  | ..MVQEIAQEIIRSARKKGAQDIYFVPKLDAYELHMRVGDERCKIGCYDFEKFQAAVISHFKFVAGMNVGEKRRSQLGSCD    | 78 |
| NTDB id 270 KZH43 RS09265 WP 000249564.1    | ..MVQEIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFQAAVISHFKFVAGMNVGEKRRSQLGSCD    | 78 |
| NTDB id 229 SPD RS09895 WP 000249564.1      | ..MVQEIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFQAAVISHFKFVAGMNVGEKRRSQLGSCD    | 78 |
| NTDB id 195 SPR RS09430 WP 000249564.1      | ..MVQEIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFQAAVISHFKFVAGMNVGEKRRSQLGSCD    | 78 |
| NTDB id 160 SP RS10380 WP 000249564.1       | ..MVQEIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFQAAVISHFKFVAGMNVGEKRRSQLGSCD    | 78 |
| consensus                                   | ***!*****!* **!!!!*** * !*****!*****! *! ***** *****!!!!*****!!!!!!*!!!!*!           |    |

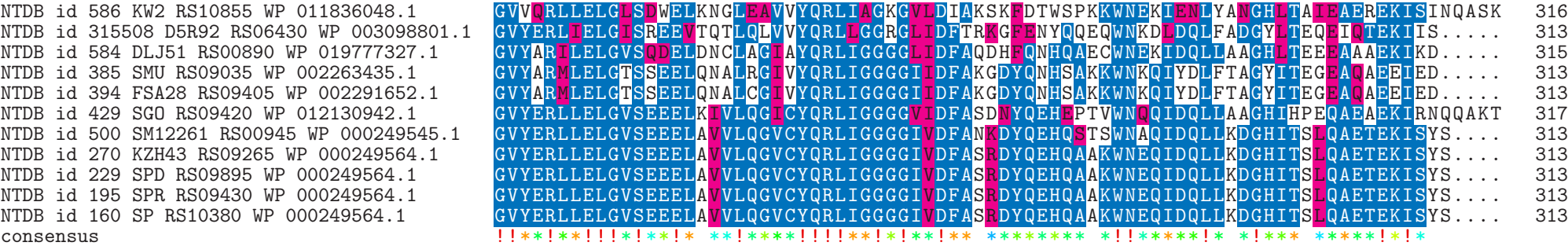
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| NTDB id 586 KW2 RS10855 WP 011836048.1      | YELFGSSAKRLRLSTVGDFEGNESLVRILLHDQKQLEFWFDDK..LQDFRCKRGLYLFAGPVGSGKTSLMFDLAHRHFS          | 156 |
| NTDB id 315508 D5R92 RS06430 WP 003098801.1 | YQYGAKNDISLRLSTVGDIRGKESLVRILLHHQNRSLSFWDREKELAEQVTRRGLYLFSGPVGSGKTSLMYQLLAKDSK          | 158 |
| NTDB id 584 DLJ51 RS00890 WP 019777327.1    | YAFADGETAALRLSTVGDIYQGRESLVRILLFDRKRCLKFWFDGLNALLPKIIGRGLYLFSGPVGSGKTTLMYELVSRKY         | 160 |
| NTDB id 385 SMU RS09035 WP 002263435.1      | YSYDEGKVISLRLSSVGDIRGYESLVRILLFSGRHDCLKFWFNSMDLILNEIKGRGLYLFSGPVGSGKTSLMYQLVKLRFE        | 158 |
| NTDB id 394 FSA28 RS09405 WP 002291652.1    | YSYDEGKVISLRLSSVGDIRGYESLVRILLFSGRHDCLKFWFNSMDLILNEIKGRGLYLFSGPVGSGKTSLMYQLVKLRFE        | 158 |
| NTDB id 429 SGO RS09420 WP 012130942.1      | YRYDD.KETSIRLSTVGDIRGYESLVRILLHDEETELKFWFTHFPPELREKFKDRGLYLFSGPVGSGKTTLMHQLAQLKFK        | 157 |
| NTDB id 500 SM12261 RS00945 WP 000249545.1  | YEYDD.KMASLRLSTVGDIRGHESLVRILLHDEEQDLHFWFQDIEELGKQYRQRGLYLFAGPVGSGKTTLMHSLAKSLFK         | 157 |
| NTDB id 270 KZH43 RS09265 WP 000249564.1    | YAYDH.KIASLRLSTVGDIRGHESLVRILLHDEEQDLHFWFQDIEELGKQYRQRGLYLFAGPVGSGKTTLMHSLAKSLFK         | 157 |
| NTDB id 229 SPD RS09895 WP 000249564.1      | YAYDH.KIASLRLSTVGDIRGHESLVRILLHDEEQDLHFWFQDIEELGKQYRQRGLYLFAGPVGSGKTTLMHSLAKSLFK         | 157 |
| NTDB id 195 SPR RS09430 WP 000249564.1      | YAYDH.KIASLRLSTVGDIRGHESLVRILLHDEEQDLHFWFQDIEELGKQYRQRGLYLFAGPVGSGKTTLMHSLAKSLFK         | 157 |
| NTDB id 160 SP RS10380 WP 000249564.1       | YAYDH.KIASLRLSTVGDIRGHESLVRILLHDEEQDLHFWFQDIEELGKQYRQRGLYLFAGPVGSGKTTLMHSLAKSLFK         | 157 |
| consensus                                   | ! ** *****!!!!*!!!!*!! !!!!!!!!!!!!!*****! !!!!!***** * * !!!!!!!!!*!!!!!!!!!!!!*!!!!* * |     |

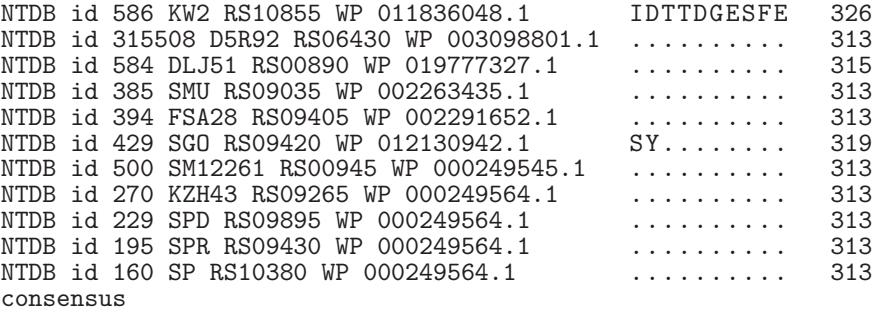
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| NTDB id 586 KW2 RS10855 WP 011836048.1      | NAQVIITIEEPVELIDSDFIQLQVNDVIGNSYDELIKLSLRHRPDLLIIGEIRDQQTARAVLRASLTGYTVFSTIHAASVK         | 236 |
| NTDB id 315508 D5R92 RS06430 WP 003098801.1 | QKQIITIEDPVEIKDTRMLQLQVNDISIGTTYDNLIKLSLRHRPDVLIIGEIRDQTETARAAIRASLTGSVVVFSTIHAKSIP       | 238 |
| NTDB id 584 DLJ51 RS00890 WP 019777327.1    | DSQIITIEDPVEIKQDNMLQLQLNPSIGMTYDHLIKLSLRHRPDVLIIGEIRDRETAQAVIRASLTGIRVFSTVHAKSIP          | 240 |
| NTDB id 385 SMU RS09035 WP 002263435.1      | TKQVITIEDPVEIKQDNMLQLQLNESIDMTYDNLIKLSLRHRPDILLIGEIRDKETARAVIRASLTGAMVFSTIHAKSIP          | 238 |
| NTDB id 394 FSA28 RS09405 WP 002291652.1    | TKQVITIEDPVEIKQDNMLQLQLNESIDMTYDNLIKLSLRHRPDILLIGEIRDKETARAVIRASLTGAMVFSTIHAKSIP          | 238 |
| NTDB id 429 SGO RS09420 WP 012130942.1      | GQQVMSIEDPVEIKQEDMLQLQLNETIGLTYESLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIP          | 237 |
| NTDB id 500 SM12261 RS00945 WP 000249545.1  | GQQVMSIEDPVEIKQDNMLQLQLNEAIGLTYENLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIR          | 237 |
| NTDB id 270 KZH43 RS09265 WP 000249564.1    | GQQVMSIEDPVEIKQDDMLQLQLNEAIGLTYENLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIR          | 237 |
| NTDB id 229 SPD RS09895 WP 000249564.1      | GQQVMSIEDPVEIKQDDMLQLQLNEAIGLTYENLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIR          | 237 |
| NTDB id 195 SPR RS09430 WP 000249564.1      | GQQVMSIEDPVEIKQDDMLQLQLNEAIGLTYENLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIR          | 237 |
| NTDB id 160 SP RS10380 WP 000249564.1       | GQQVMSIEDPVEIKQDDMLQLQLNEAIGLTYENLIKLSLRHRPDLLIIGEIRDSETARAVVRASLTGATVFSTIHAKSIR          | 237 |
| consensus                                   | ***!*****!!!!*!!!!*!! !*****!*****! !!!!!!!!!*!!!!*!! !!!!!!!!!*!!!!*!! !!!!!!!!!*!!!!*!! |     |

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X non conserved  
X similar  
X ≥ 50% conserved