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|----------------|----------------------------------|--------------------------------------------------------------------------------------|----|
| NTDB id 420    | DQL23 RS10740 WP 008808031.1     | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 417    | SGO RS10500 WP 008808031.1       | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 627    | AAM18091.1 1453..2205( )         | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 487    | SM12261 RS09370 WP 000866073.1   | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 250    | KZH43 RS10245 WP 000866065.1     | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 209    | SPD RS10920 WP 000866065.1       | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 175    | SPR RS10400 WP 000866065.1       | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 139    | SP RS11425 WP 000866065.1        | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 515    | SMSK321 RS0102895 WP 000866074.1 | .MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY     | 78 |
| NTDB id 545    | H702 RS02385 WP 052071091.1      | MIDIIYVLEDNIVNQQRFRTEKMIGDILETNCWETRHFDFLSEPDCLTNL.VEISFPQIFFLDIDIHGDNTEKGEVAKAIREK  | 79 |
| NTDB id 542    | H702 RS02345 WP 039696227.1      | MLDIIFILEDNITQQFRIRERQIETIMERNHWEYQRLEAF.AASKDIIKKADGGGNHGVFFLDLEIKGDEKQGLDVARSIRESK | 80 |
| NTDB id 206773 | BSR14 RS02320 WP 002886762.1     | MLNIYVLEDHFIQCNRIIEEVIHTILKKMNIKVGDFEVFDKPNQLLDFITERGSHQLBFLDIQIKDDTKKCLEVAKQIRKS    | 80 |
| NTDB id 55     | SMU RS08710 WP 002262114.1       | MISIFVLEDDFLQQRLETTIAATMKEKNWSYKELTIFGKPPQLIDAIPEKGNHQTFFLDIEIKKEKKGLEVANQIRQH       | 80 |
| consensus      |                                  | *****!!! **!*!*!*!***** ** * * ***** ** ** **!*!!!!!!** **!* **!* **!                |    |

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| NTDB id 420    | DQL23 RS10740 WP 008808031.1     | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 417    | SGO RS10500 WP 008808031.1       | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 627    | AAM18091.1 1453..2205( )         | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 487    | SM12261 RS09370 WP 000866073.1   | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 250    | KZH43 RS10245 WP 000866065.1     | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 209    | SPD RS10920 WP 000866065.1       | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 175    | SPR RS10400 WP 000866065.1       | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 139    | SP RS11425 WP 000866065.1        | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 515    | SMSK321 RS0102895 WP 000866074.1 | NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEEDVDYFDYNYKGNLKIPIYHDI  | 158 |
| NTDB id 545    | H702 RS02385 WP 052071091.1      | SRTAIIIVFVTHSEFMLLTYRAQVSALDFIDKTDKDAIKNDKKCKQKVE.DQGFNIPKEIFVHFNKTKIRIPLEDI    | 158 |
| NTDB id 542    | H702 RS02345 WP 039696227.1      | DPTAIIIVFVTHSEFMLLTYQSLVGATDFIDKNNDDEAFGGRIELCKEALK.YQTGSFGENSIVHETAKARIRVAYDDI | 159 |
| NTDB id 206773 | BSR14 RS02320 WP 002886762.1     | DPYANIVFFTHSEYVLPFTFYQQLAALDFIDKSLEGEDFQKRLESILLTCKKIQSQ.NPEDAFRIENVKTVIQVPFHDI | 159 |
| NTDB id 55     | SMU RS08710 WP 002262114.1       | NPSAVIVFVTHSEFMPLTHQYQVSALDFIDKSLNPEBFSHRIBSALYYAMENSQKNGQSEELFIHSSSETQFQVPAEII | 160 |
| consensus      |                                  | ***!*!!!!!!* !!!*****!*****!***** ***** * *** ***** ***** **********!           |     |

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| NTDB id 420    | DQL23 RS10740 WP 008808031.1     | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 417    | SGO RS10500 WP 008808031.1       | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 627    | AAM18091.1 1453..2205( )         | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 487    | SM12261 RS09370 WP 000866073.1   | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 250    | KZH43 RS10245 WP 000866065.1     | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 209    | SPD RS10920 WP 000866065.1       | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 175    | SPR RS10400 WP 000866065.1       | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 139    | SP RS11425 WP 000866065.1        | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 515    | SMSK321 RS0102895 WP 000866074.1 | LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNISGYDKKTKDVLVYDGHRSPIISRLRVR | 238 |
| NTDB id 545    | H702 RS02385 WP 052071091.1      | LYFETAE.SHRLKLIITKGGQHFGYSIKEVMIANQ...KLRCHKSYLNNINIVRLDKKEGLVYFDDDKACYVSRKYIK    | 234 |
| NTDB id 542    | H702 RS02345 WP 039696227.1      | LYFETSPTVHRVILHTKTGQTEFYGTIAEVAKSDD...RLLKCHRSFVINNVNTEFDDKSTRATAYFENGSCYQVSRDKVK | 236 |
| NTDB id 206773 | BSR14 RS02320 WP 002886762.1     | LYFETSDIVHKHVIYTTKEEQIEFYGTIAEVAKSDD...RLFKCHKSFLVMPENIKLDKSTGTVYFENGVCYVSKLKLK   | 236 |
| NTDB id 55     | SMU RS08710 WP 002262114.1       | LYFETSSTAHLKCLYTYDERIEFYGTIAEVAKSDD...RLFKCHRSFVINPANITRIDRKRLAYERNKSCILSRTKIT    | 237 |
| consensus      |                                  | !!*!!***** ***** **!*!!!!***** ** *****!*!!!!**!* **!* **!* ***************       |     |

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|----------------------------------------------|-----------------------------------|-----|
| NTDB id 420 DQL23 RS10740 WP 008808031.1     | Y L K E I L K A K S K K E E N K K | 255 |
| NTDB id 417 SGO RS10500 WP 008808031.1       | Y L K E I L K A K S K K E E N K K | 255 |
| NTDB id 627 AAM18091.1 1453..2205( )         | K L R D I L E K K S K K * . . . . | 250 |
| NTDB id 487 SM12261 RS09370 WP 000866073.1   | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 250 KZH43 RS10245 WP 000866065.1     | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 209 SPD RS10920 WP 000866065.1       | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 175 SPR RS10400 WP 000866065.1       | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 139 SP RS11425 WP 000866065.1        | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 515 SMSK321 RS0102895 WP 000866074.1 | K L K D I L E K K S Q K . . . . . | 250 |
| NTDB id 545 H702 RS02385 WP 052071091.1      | D L R S K M E N L K . . . . .     | 244 |
| NTDB id 542 H702 RS02345 WP 039696227.1      | K L M A E M R . . . . .           | 243 |
| NTDB id 206773 BSR14 RS02320 WP 002886762.1  | K L L E R I S L . . . . .         | 244 |
| NTDB id 55 SMU RS08710 WP 002262114.1        | K L R A V I A D Q R R A K . . . . | 250 |
| consensus                                    | * ! * * * * * * * *               |     |

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved