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|                                               |                                                                                                |    |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|----|
| NTDB id 1045 HON27 RS16330 WP 168727019.1     | MAEQQPLVLLVDDDEEDLCLLMQMTLARMGIKTHLAYRVEQAKQLFTQFHYDACLTDLNLPGDGSGLDLVKHVSQNYPNPTPI            | 80 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | .MSEPKSALVDDDERDIRELLVLTGLRMGLRISTAAFLAEARELLANNPYDLCLTDMRLPDGNGTIELVTEISKQYPQTPV              | 79 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | ..MSRQKALIVDDEPDIRELLEITLGRMKLDTRSAARNVKEARELLAREPFDLCLTDMRLPDGSGLDLVQYIQQRHPQTPV              | 78 |
| consensus                                     | *!!!!!!!! !***** *!!!!!!!!***** *! ** *!!!!!!!!***** *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! *****!!!! |    |

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| NTDB id 1045 HON27 RS16330 WP 168727019.1     | AVLTAYGNMDIATAALKAGAFDFVSKPVDQVHLDDQLLQKALNRQKVHDT..TENALENKLTLGRSLPIQQLRIAIAIKKITA | 158 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | AMITAFGSMDLAVEALKAGAFDFVSKPVDISVLRGLVKHAELENNRDRPAPPPPPPEQASRLLDSSAMESLRATIGKVA     | 159 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | AMITAYGSLDTATQALKAGAFDFLTKPVDLGRRLRELVTALRLRNPEAEAEA....PVDNRLLGESPPMRALRNQIGKLA    | 153 |
| consensus                                     | !!!!!!!!*!!*! * !!!!!!!!!!!*!!!!!!* !* !* !! *** * * ****!! ** !! !*!!              |     |

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| NTDB id 1045 HON27 RS16330 WP 168727019.1     | RSQAPVYIVGESGIGKELVARLIHEQGRRSEGPFFIATNCGAIPTELMESEFFGHKKGSFTGATQDKQGLFQAHHGGTLFLL      | 238 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | RSQAPVYIVGESGVGKELVARTIHEQGARAAGPFVFPVNCGAIPAELMESEFFGHKKGSFTGAHADKPGLFQAHHGGTLFLL      | 239 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | RSQAPVYISGESGSGKELVARLIHEQGPRIERPFVFPVNCGAIPSELMESEFFGHKKGSFTGAIEDKQGLFQAASGGTLFLL      | 233 |
| consensus                                     | !!!!!!!!*!!*! !!*!!*!!*!!*!!*!!* ! **!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!! |     |

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| NTDB id 1045 HON27 RS16330 WP 168727019.1     | DEVAELPLMQVKLLRAIQEKSVRVPVSSQEVVDVRILSATHKDLGLLVGRFRQDLYYRINVIELRVPPLRERREDY            | 318 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | DEVAELPLMQVKLLRAIQEKSVRVPVASTESLVDVRILSATHKDLGLVSDGRFRHDLYYRINVIELRVPPLRERSGDL          | 319 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | DEVADLPYAMQVKLLRAIQEKAVRAVGGQVEAVDVRILCATHKDLAAEVGAGRFRQDLYYRLNVIELRVPPLRERREDI         | 313 |
| consensus                                     | !!!!!!!!* !!!!!!!!!!!*!!!! !*!!*! *!!* !!!!!!!!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!! |     |

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| NTDB id 1045 HON27 RS16330 WP 168727019.1     | LLLANHFIQKICMEWETPPKQLTEAAETYLLQHFPGNVRELNRMIERATITLSEDATIDISHLHPAPLRANISNPFASAA   | 398 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | PQLAAATIAARLARSHGRPIPLLTQSALDALDITYGFPGNVRELENILERALALAEDDQISASDLRLPAHGCHRL...AASP | 396 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | PLLAERIILKRLAGDTGLPAARLTGDAQEKLNRYRFPGNVRELENMLERAYTLCEDDQIQPHDLRLADAPGASQ...EGAA  | 390 |
| consensus                                     | **!! ** *** * * ! ! ! * ! * * !!!!!!!!!!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!   |     |

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| NTDB id 1045 HON27 RS16330 WP 168727019.1     | QSIQTTVAAPQAVKKLPSECLERYLENIEKDILLNALNMTHWNRTLAACKLGMTFRSLRYRLKKFGLDTETETEVEV | 473 |
| NTDB id 1042922 ABQ014 RS16785 WP 074058079.1 | GSAAIEPREAVVDIDPASAAALPSYTEQLERAATIQKALEENRWNKTRTAAQLGITFRALRYLKKKLKLGME..... | 464 |
| NTDB id 1473 PAKAF RS24000 WP 003094694.1     | S.....L.....SEIDNLEDYLEDIERKLIMQALEETRWNRTAAARLGLTFRSMRYRLKKLGLD.....         | 445 |
| consensus                                     | * * ****! !*!!*! *****!!!!!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!           |     |

 non conserved  
 similar  
 ≥ 50% conserved