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|                                            |                                                                                            |    |
|--------------------------------------------|--------------------------------------------------------------------------------------------|----|
| NTDB id 597 KW2 RS01935 WP 021036727.1     | . MNKKTMLIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISITILWGKSAETLIVSYAKKGSLSISVEGEIRTRNYTDK | 84 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1 | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGKLAESLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1 | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGRLAETLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 158 SP RS09595 WP 000282442.1      | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGRLAETLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1   | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGRLAETLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 227 SPD RS09110 WP 000282467.1     | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGRLAETLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 193 SPR RS08685 WP 000282467.1     | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDQNGEREADFVNMMVLWGRLAETLASATKGSLSISVDGELRTRRFE.K    | 84 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1   | MYNKVILIGRLTAAPENVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNMMVFWGKLAESLVSYAGKGSLSISLDGEIRTRHYE.K    | 84 |
| NTDB id 409 SMU RS08940 WP 002263454.1     | MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNMMVLWGRLAETIASYGSKGSLSISLDGELRTRKYE.K    | 84 |
| NTDB id 80246 L6484 RS10775 WP 200152291.1 | MMNRVVVLIGRLTKEPELYYTKQGVAYARVCVAVNRGFRNSLGEQQVDFINCVVWRKSAENVTEYCKKGSLSVGITGRIHTKNYEDD    | 85 |
| NTDB id 624 LCA RS00040 WP 011373726.1     | MINRVVLVGRLTRDVEDLRYTSSGAAVGTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLSVGVDGRLQTRNYENQ    | 85 |
| NTDB id 113 BSU 40900 NP 391970.1          | MLNRVVVLVGRLTCKDPELRYTPNGAAVATFTLAVNRFTFTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTRNYENQ   | 85 |
| NTDB id 112 BSU 36310 NP 391512.2          | MFNQVMLVGRLTCKDPELRYTSAGAAVAHVTLAVNRSFKNASGETEADYVNCTLWRKTAENTALYCQKGSLSVGVSGRITQTRSYENE   | 85 |
| consensus                                  | ***!*****!!* ** *                                                                          |    |

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|--------------------------------------------|---------------------------------------------------------------------------------------|-----|
| NTDB id 597 KW2 RS01935 WP 021036727.1     | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 122 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1 | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1 | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 158 SP RS09595 WP 000282442.1      | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1   | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 227 SPD RS09110 WP 000282467.1     | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 193 SPR RS08685 WP 000282467.1     | NGQMNYVTEVLVTGFLLESRAQRAMRENNAGQ                                                      | 124 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1   | DGQTHYVTEILAQSFQLLESRAQRAALRENNAGS                                                    | 124 |
| NTDB id 409 SMU RS08940 WP 002263454.1     | DGVTHFVTEVLGHSFQLLESRAQRAMRENNSEN                                                     | 124 |
| NTDB id 80246 L6484 RS10775 WP 200152291.1 | QGKRIYITEVVIESTITFLERRREGVSQ                                                          | 112 |
| NTDB id 624 LCA RS00040 WP 011373726.1     | QGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNQSQ.....QSFGTSPQQTGNAPAAANNTQADPFANNQQAIDT  | 163 |
| NTDB id 113 BSU 40900 NP 391970.1          | QGQRVFVTEVQAESVQFLEPKNGGGSGSG.....GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDPFANDGKPIDI | 165 |
| NTDB id 112 BSU 36310 NP 391512.2          | EGVNVYVTEVLADTVRFMDPKPREKAAD                                                          | 113 |
| consensus                                  | *** **!*** ********** ** *                                                            |     |

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|                                            |         |     |
|--------------------------------------------|---------|-----|
| NTDB id 597 KW2 RS01935 WP 021036727.1     | EEDELFP | 129 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1 | EEEELPF | 131 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1 | EEEELPF | 131 |
| NTDB id 158 SP RS09595 WP 000282442.1      | EEEELPF | 131 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1   | EEEELPF | 131 |
| NTDB id 227 SPD RS09110 WP 000282467.1     | EEEELPF | 131 |
| NTDB id 193 SPR RS08685 WP 000282467.1     | EEEELPF | 131 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1   | EEEELPF | 131 |
| NTDB id 409 SMU RS08940 WP 002263454.1     | EEEELPF | 131 |
| NTDB id 80246 L6484 RS10775 WP 200152291.1 | .....   | 112 |
| NTDB id 624 LCA RS00040 WP 011373726.1     | SDDDLFP | 170 |
| NTDB id 113 BSU 40900 NP 391970.1          | SDDDLFP | 172 |
| NTDB id 112 BSU 36310 NP 391512.2          | .....   | 113 |
| consensus                                  | *****   |     |

 non conserved  
 similar  
  $\geq 50\%$  conserved