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|                                                |                                                                                        |    |
|------------------------------------------------|----------------------------------------------------------------------------------------|----|
| NTDB id 624 LCA RS00040 WP 011373726.1         |       |    |
| NTDB id 113 BSU 40900 NP 391970.1              | MINRVVLVGRLLTRDVLRYTSSGAAVGTFSSMAVNRQFTNANGDREADFVNCVLTWRKSAENFANFTKKGSLVGV DGRLLQTR   | 80 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | MLNRVVVLVGRLLTKDPPELRYTPNGAAVATFTLAVNRFTFTNQSGEREADFVNCVLTWRQAEVAVNFKKKGSLAGV DGRLLQTR | 80 |
| NTDB id 1111849 SPYH293 RS00715 WP 003053955.1 | .MNKTMILIGRLTNAPETISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISTILWGKSAETLVSYAKKGSLISV EGETRTR    | 79 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | MYNKKVIAIGRLVAKPELVKTATDKHVARLSLAVNRRFKNASGEREADFISVVVWCKLAETLVSYASKGSLM SLDGELRTR     | 80 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDDNGEREADFVNMVLWGKLAESLASYATKGSLISV DGE L RTR   | 80 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDDNGEREADFVNMVLWGRLAETLASYATKGSLISV DGE L RTR   | 80 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDDNGEREADFVNMVLWGRLAETLASYATKGSLISV DGE L RTR   | 80 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKDDNGEREADFVNMVLWGRLAETLASYATKGSLISV DGE L RTR   | 80 |
| NTDB id 158 SP RS09595 WP 000282442.1          | MYNKKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKDDNGEREADFVNMVLWGRLAETLASYATKGSLISV DGE L RTR   | 80 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | MYNKKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNMVLWGRLAETIASYGSKGSLIS DGE L RTR    | 80 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | MYNKKVILIGRLTAAPEMVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNMVFWCKLAESLVSYAGKGSLV SLDGE L RTR   | 80 |
| consensus                                      | ***!*****!!* **** *! ***** **!!!!** *!*!!!!!!*****!***!!*****!!!!!!*****!***!!         |    |

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|------------------------------------------------|------------------------------------------------------------------------------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1         |        |     |
| NTDB id 113 BSU 40900 NP 391970.1              | NYENQGGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNQS... . . . . . QSGFTSPQQTGNAPAANNTQADP   | 153 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | NYENQGGQRVYVTEVQAESVQFLEPKNGGSGS... . . . . . GGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDP | 155 |
| NTDB id 1111849 SPYH293 RS00715 WP 003053955.1 | NYTDKNEQKHYTEILGLSYDLLESRTATLALRESAVK... . . . . .                                       | 116 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | KYD.KDGGVHYVTEVLCQSFQLLESRAQRAMRENNVT... . . . . .                                       | 116 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG... . . . . .                                       | 116 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | RFE.KNGQMNYVAEVLVTGFQLLESRAQRAMRENNAG... . . . . .                                       | 116 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG... . . . . .                                       | 116 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG... . . . . .                                       | 116 |
| NTDB id 158 SP RS09595 WP 000282442.1          | RFE.KNGQMNYVTEVLVTGFQLLESRAQRAMRENNAG... . . . . .                                       | 116 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | KYE.KDGVTHFVTEVLGHSFQLLESRAQRAMRENNSE... . . . . .                                       | 116 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | HYE.KDGGTHYVTEILAQSFQLLESRAQRALRENNGA... . . . . .                                       | 116 |
| consensus                                      | *** **** *!*** ****!**********                                                           |     |

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|------------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1         |  |     |
| NTDB id 113 BSU 40900 NP 391970.1              | FANNQQAIDISDDDLFP                                                                  | 170 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | FANDGKPIDISDDDLFP                                                                  | 172 |
| NTDB id 1111849 SPYH293 RS00715 WP 003053955.1 | ...TEELLLEADELPF                                                                   | 129 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | ..NDLVDLVLEEDTLFP                                                                  | 131 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | ..QDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | ..QDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | ..QDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | ..QDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 158 SP RS09595 WP 000282442.1          | ..QDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | ..NDLADLVLEEEELPF                                                                  | 131 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | ..SDITDLVLEEEELPF                                                                  | 131 |
| consensus                                      | *****!!!!                                                                          |     |

 non conserved  
 similar  
 ≥ 50% conserved