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|-------------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 624 LCA RS00040 WP 011373726.1          | MINRVVLVGRLTRDVLRYTSSGAAVCTFSMAVNRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR    | 80 |
| NTDB id 113 BSU 40900 NP 391970.1               | MLNRVVLVGRLTKDPELRYTPNGAAVATFTLAVNRFTTNQSGEREADFINCVTWRRQAENVANFLKKGSLAGVDGRLQTR   | 80 |
| NTDB id 597 KW2 RS01935 WP 021036727.1          | .MNKTMILIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISITLWCKSAETLVSYAKKGSLSISVEGETRTR | 79 |
| NTDB id 976856 MGAS38337 RS00735 WP 003053955.1 | MYNKVIAIGRLVAKPELVKTATDKHVARLSLAVNRRFKNASGEREADFISVVWVGKLAETLVSYASKGSLMSIDGELRTR   | 80 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1      | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGKLAESLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1      | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1        | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 227 SPD RS09110 WP 000282467.1          | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 193 SPR RS08685 WP 000282467.1          | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 158 SP RS09595 WP 000282442.1           | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQDNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR   | 80 |
| NTDB id 409 SMU RS08940 WP 002263454.1          | MYNKVILIGRLVATPEVVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNVLWGRLAETIASYGSKGSLISLDGELRTR    | 80 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1        | MYNKVILIGRLTAAPENVKTPSNKSVTHITLAVNRRFKTQDGERQADFVNVLFWGKLAESLVSYAGKGSLVSLDGEIRTR   | 80 |
| consensus                                       | ***!*****!!* **** *! ***** **!!!!** *!*!!!!!!*****!!!!!!*****!!!!!!                |    |

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|-------------------------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1          | RYEKNQGMNYVTEVLVSGFQLLESRAQRAMRENNAG                                            |     |
| NTDB id 113 BSU 40900 NP 391970.1               | NYENQGGQRVVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNQSQ.....QSGFTSPQQTGNAPAAANTQADP | 153 |
| NTDB id 597 KW2 RS01935 WP 021036727.1          | NYENQGGQRVFVTEVQAESVQFLEPKNGGSGS....GGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQNSFNDDP   | 155 |
| NTDB id 976856 MGAS38337 RS00735 WP 003053955.1 | NYTDKNEQKHYTEILGLSYDLESRAATLALRESAVK.....                                       | 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.KDGGQTHYVTEVLAQSFQLLESRAQRAIRENNGA.....                                     | 116 |
| consensus                                       | *** **** *! **** ****!!*****                                                    |     |

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|-------------------------------------------------|--------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1          | FANNGQATIDISDDDLPF | 170 |
| NTDB id 113 BSU 40900 NP 391970.1               | FANDGKPIDISDDDLPF  | 172 |
| NTDB id 597 KW2 RS01935 WP 021036727.1          | ...TEELLEADELPF    | 129 |
| NTDB id 976856 MGAS38337 RS00735 WP 003053955.1 | ..NDLVDLVLEEDTLPF  | 131 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1      | ..QDLADLVLEEEELPF  | 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        | ..SDLTDLVLEEEELPF  | 131 |
| consensus                                       | *****!!!!          |     |

-  non conserved
-  similar
-  ≥ 50% conserved