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|                                              |                                                                                   |    |
|----------------------------------------------|-----------------------------------------------------------------------------------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | MSVLTITCDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK | 0  |
| NTDB id 1028 TT RS08215 WP 011173991.1       | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK  | 80 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                                                                             | 0  |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                                                                             | 0  |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....                                                                             | 0  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                                                                             | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                                                                             | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                                                                             | 0  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                                                                             | 0  |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....                                                                             | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                                                                             | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                                                                             | 0  |
| consensus                                    |                                                                                   |    |

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|----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1       | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 160 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                                                                             | 0   |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                                                                             | 0   |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....                                                                             | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                                                                             | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                                                                             | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                                                                             | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                                                                             | 0   |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....                                                                             | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                                                                             | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                                                                             | 0   |
| consensus                                    |                                                                                   |     |

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| NTDB id 1410 SGL RS13950 WP 010873519.1      | EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1       | EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL | 240 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                                                                            | 0   |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                                                                            | 0   |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....                                                                            | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                                                                            | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                                                                            | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                                                                            | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                                                                            | 0   |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                                                                            | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                                                                            | 0   |
| consensus                                    |                                                                                  |     |

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| NTDB id 1410 SGL RS13950 WP 010873519.1      | LRSDALRYGAVPIIGFQNGEVEVVLS | 6   |
| NTDB id 1028 TT RS08215 WP 011173991.1       | LRSDALRYGAVPIGFQNGEVEVVLS  | 320 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                      | 0   |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                      | 0   |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....                      | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                      | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                      | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                      | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                      | 0   |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....                      | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                      | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                      | 0   |
| consensus                                    |                            |     |

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|----------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | SKKSR                                                                            | 86  |
| NTDB id 1028 TT RS08215 WP 011173991.1       | KEALEVQKGLPRAKPIGETLVELGLARPEDVEEALQKQRRCGGRIEDTLVQS..GKLRPEAL                   | 391 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                                                                            | 21  |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                                                                            | 21  |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....MLTNLVAILLRQAEELISATGEQAVVTQVSASGTSVPEALDEL..SIFHAQBELTEQ.....LSHIFGLP      | 60  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....MLTNLVAILLRQAEELISATGEQAVVTQVSASGTSVPEALDEL..SIFHAQBELTEQ.....LSHIFGLP      | 60  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....MLTNLSTVLRQAGILTFSSQEESLLEQVKASCISMPEALSSS..GFFQSHLTELH.....LSSVFGLS        | 60  |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....MHSNLSLTLRQKGLLTFSSQEESLLEQVKASCISMPEALSSS..GFFTSSELAEH.....LSSIFGLS        | 60  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....MSVGLLRLLVQNVVTVGEAEHYY.NESQACKEVLPLMLFSD..GVISPKSLAAL.....LARVFSYS         | 59  |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKN..KILSAEQIALT.....AAQNFQVP   | 68  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | ...MSALHTSPKFTGFFRRLLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIEE..VHLSPSLLAET.....ISAEFAEP | 68  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQAIEKAKKFQKDVPYLDN..FSISPLTIAEI.....ISLBFCEP     | 68  |
| consensus                                    | * * * * *                                                                        |     |

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| NTDB id 1410 SGL RS13950 WP 010873519.1      | SVDP                                                                               | 164 |
| NTDB id 1028 TT RS08215 WP 011173991.1       | YVDPEEDPPDP.....GAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNIALALDDVRLAL                 | 463 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....ISPDLL.....WERNQQQQSLLLRYFALPLKEEN...NRLWLCVDSLSNLSACETIAFITG.....KPVEPILLE   | 82  |
| NTDB id 1355 HI 0298 AAC21962.1              | .....ISPDLL.....WERNQQQQSLLLRYFALPLKEEN...NRLWLCVDSLSNLSACETIAFITG.....KPVEPILLE   | 82  |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | ETDLSRYDYAN....LCQQQLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEEDFRFATG.....LQVELALAD   | 127 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | ETDLSRYDYAN....LCQQQLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEEDFRFATG.....LQVELALAD   | 127 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | CTSLNQYBYAS....LCQTLGLRDLITRHNALPLNRTS...STLLILAVADPTNLQAEEDFRFATG.....LQVELVLAD   | 127 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | QPELSQYBYAS....LCQQQLGLRELITRHNALPLHRTPT...STLLILAVADPTNLQAEEDFRFATG.....LQVELVLAD | 127 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | ILDRLRHYPRHR....VLMGVLTETQMVETHCVPVFRRG...DKVFFAVSDPTQMPQIQKTVSAAG.....LAVELVIVE   | 126 |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | MLDINCIDVGT....IPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVE   | 135 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | YFDLDVYDTSQ....IPKDLVDQKLLIKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVE    | 135 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | LLDLGVDFPAL....FLKDKIDEKLIQKYRIMPLVHRG...HVLVYVATSNPTNIEAMAIRFNSK.....LKVEPIIVE    | 135 |
| consensus                                    | ** * * * * *                                                                       |     |





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| NTDB id 1410 SGL RS13950 WP 010873519.1      | KRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1028 TT RS08215 WP 011173991.1       | .....                           | 889 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....                           | 464 |
| NTDB id 1355 HI 0298 AAC21962.1              | .....                           | 464 |
| NTDB id 43525 V060002 RS02680 WP 000957200.1 | .....                           | 562 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                           | 562 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                           | 561 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                           | 561 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                           | 558 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | .....                           | 574 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                           | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                           | 570 |
| consensus                                    |                                 |     |

-  non conserved
-  similar
-  ≥ 50% conserved