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|                                              |                                 |                |                     |                |                |      |    |
|----------------------------------------------|---------------------------------|----------------|---------------------|----------------|----------------|------|----|
| NTDB id 1187 NEISUBOT RS06510 WP 050767750.1 | ...MYLKAFDRKWDRATV              | QKGYSLIQLLV    | MLL                 | VSILATAAFTVYR  | ESVRSANIRAAHAA | LENA | 62 |
| NTDB id 1085 NMV RS10945 WP 002218144.1      | .....MTDNRGFTLVELISVVLI         | LSVLALIVYPSYR  | NYVEKAKINAVRAA      | LENA           | 50             |      |    |
| NTDB id 1117 NGFG RS06520 WP 002214937.1     | .....MTDNRGFTLVELISVVLI         | LSVLALIVYPSYR  | NYVEKAKINAVRAA      | LENA           | 50             |      |    |
| NTDB id 1195 PAKAF RS24020 WP 016253895.1    | .....MLLKSRHRSLHQSGFSMIEVLVALL  | ISICVLGMIA     | MQGKTIQYTADSVE      | RNKAAMLGSNLLES | MRASPKAL       | 72   |    |
| NTDB id 1007 ACIAD RS15000 WP 004923844.1    | .....MRVRHGFTLIELMIVVAI         | IGILAAIAYPSYQ  | NYKIRVNRS           | SDVQSELIRVS    | 50             |      |    |
| NTDB id 1062 ABD1 RS15720 WP 000788345.1     | .....MKNHGFTLIELMIVVAI          | IAILAAIATPSYL  | QYLRKCHRTAVQSE      | MNIA           | 48             |      |    |
| NTDB id 1383 A4U84 RS08530 WP 005711781.1    | .....MKKIRLIRPLAKAFTLIELMIVTAI  | IAILATIAIPSYT  | SYTQKAALSELL        | SASASYK        | 57             |      |    |
| NTDB id 1365 NTHI RS01955 WP 011271973.1     | .....MKLTTQQTLLKKGFTLIELMIVTAI  | IAILATIAIPSYQ  | NYTKKAAVSELL        | QASAPYK        | 56             |      |    |
| NTDB id 1354 HI 0299 AAC21963.1              | .....MKLTTLQTLKKGFTLIELMIVTAI   | IAILATIAIPSYQ  | NYTKKAAVSELL        | QASAPYK        | 56             |      |    |
| NTDB id 1064 ABD1 RS15725 WP 001046490.1     | .....MNKYIILRFNQGFTLIELMVVIVI   | VAIFASIAIPSYQ  | SYSRRTASAAKSE       | ILKLA          | 56             |      |    |
| NTDB id 1088 NMV RS07470 WP 173277181.1      | .....MEQKQFTLIELMIVVAI          | LGILSVIAIPSYQ  | SYIEKGYQS           | QLYTE          | MVGIN          | 49   |    |
| NTDB id 1140 NGFG RS02440 WP 025455870.1     | .....MEQKQFTLIELMIVVAI          | LGILSVIAIPSYQ  | SYIEKGYQS           | QLYTE          | MVGIN          | 49   |    |
| NTDB id 1400 DSB67 RS12660 WP 010643261.1    | .....MKTNKQKKQKGFTLIELMIVVAI    | IGILAAIAPAYQ   | DYTKKATMAEFPKIASST  | K              | 55             |      |    |
| NTDB id 1292 VP RS12235 WP 005479693.1       | .....MKHSHKQKKQKGFTLIELMIVVAI   | ICVLAAAIAIPAYQ | NYVTRSEVTSGLAT      | VKALI          | 55             |      |    |
| NTDB id 1119 NGFG RS11465 WP 017147169.1     | .....MNTLQKGFTLIELMIVTAI        | VGILAAVALPAYQ  | DYTARAQVSEAI        | LLAEGQK        | 51             |      |    |
| NTDB id 1109 OK783 RS10670 WP 157147416.1    | .....MNTLQKGFTLIELMIVTAI        | VGILAAVALPAYQ  | DYTARAQVSEAI        | LLAEGQK        | 51             |      |    |
| NTDB id 1197 PSJM300 03940 AFN76866.1        | .....MKAQMKGFTLIELMIVVAI        | IGILAAIAPAYQ   | DYTVRSNAAAALAE      | TPGK           | 52             |      |    |
| NTDB id 1204 PSJM300 03935 AFN76865.1        | .....MKPVKSSCRGFSLIELMIVVAI     | IGILAAIAPAYQ   | NYTVRSTAASALAE      | TPAK           | 54             |      |    |
| NTDB id 1424 RS RS02795 WP 011000517.1       | .....MKSMRHLNKRVMKGFTLIELMIVVAI | VGILAAIAPAYQ   | DYTVRARVTEGLSLAAQAK | 58             |                |      |    |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1    | .....MNAQKGFTLIELMIVTAI         | IGILAAIAPAYT   | DYTVRARVSEGLTAASSM  | K              | 50             |      |    |
| NTDB id 1274 LPP RS09530 WP 011214168.1      | .....MRQKGFTLIELMIVVAI          | IGILAAIAPAYQ   | DYTIRARVTEGLTLADS   | SAK            | 49             |      |    |
| NTDB id 1258 GCO85 RS09745 WP 014844212.1    | .....MRQKGFTLIELMIVVAI          | IGILAAIAPAYQ   | DYTIRARVTEGLTLADS   | SAK            | 49             |      |    |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1    | .....MKAQKGFTLIELMIVVAI         | IGILAAIAPQYQ   | NYVARSEGASALAS      | VNPLK          | 50             |      |    |
| NTDB id 1191 AAC28468.1 484..945( )          | .....MLKKVQKGFTLIELMIVTAI       | IGILAAIAPAYQ   | DYTARAQA            | TECFKATAGLQ    | 52             |      |    |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1    | .....MKAYKNKQKGFTLIELMIVVAV     | ICVLAAIAPQYQ   | NYVKKSAIGVGLANIT    | TALK           | 55             |      |    |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1  | .....MKAYKNKQKGFTLIELMIVVAV     | ICVLAAIAPQYQ   | NYVKKSAIGVGLANIT    | TALK           | 55             |      |    |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1   | .....MKAYKNKQKGFTLIELMIVVAV     | ICVLAAIAPQYQ   | NYVKKSAIGVGLANIT    | TALK           | 55             |      |    |
| NTDB id 1188 NELON RS01755 WP 003772458.1    | .....MKAMQKGFTLIELMIVTAI        | IGILAAIAPAYQ   | DYTVRSKVSEATIAASSP  | K              | 51             |      |    |
| NTDB id 1038 HON27 RS01510 WP 000993725.1    | .....MNAQKGFTLIELMIVVAI         | IGILAAIAPQYQ   | NYIAKSQVNSCFSE      | ISSIK          | 50             |      |    |
| NTDB id 1415 SGL RS07945 WP 010872381.1      | MASNFKFKLLSQLSKKRAHGFTLIELLVVVI | ICVLAAIAPNLL   | GQVGKARESEAKST      | IGALN          | 65             |      |    |
| NTDB id 30809 EMIN RS08875 WP 012414839.1    | .....MKKGFTLIELLVVLI            | IGILAAIAPQYT   | LTVEKSRASECFILGR    | AGL            | 48             |      |    |
| NTDB id 1079 FDQ49 RS11140 WP 022575996.1    | .....MNAQKGFTLIELMIVVAI         | IGILAAIAPAYQ   | NYIAKSQASEAFTLADGL  | K              | 50             |      |    |
| consensus                                    | *****                           | *****          | *                   | *              | *              | *    | *  |

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|---------------|---------------------------------|------------------------------------------------------------------------------|-----|
| NTDB id 1187  | NEISUBOT RS06510 WP 050767750.1 | .....RFMEQQFYAKKGSFKLTSTK.....WPELPVKEAGG.FCIR.....MSGQAKGILEGKF             | 109 |
| NTDB id 1085  | NMV RS10945 WP 002218144.1      | .....HFMEKFYLQNGRFKQTSTK.....WPSLPIKEAEG.FCIR.....LNGIARGALDSKF              | 97  |
| NTDB id 1117  | NGFG RS06520 WP 002214937.1     | .....HFMEKFYLQNGRFKQTSTK.....WPSLPIKEAEG.FCIR.....LNGIARGALDSKF              | 97  |
| NTDB id 1195  | PAKAF RS24020 WP 016253895.1    | YDVKDQMATQSDFFKAKGSAPPTAPS.....SCTPLPDAIKDR.LG.....CW                        | 114 |
| NTDB id 1007  | ACIAD RS15000 WP 004923844.1    | .....QQLLQSYKMVNHYANA.SL...AGLGNAASYPV..TGTAFTYTLNLAVDSDNQGYVLTATP.....ISSTM | 109 |
| NTDB id 1062  | ABD1 RS15720 WP 000788345.1     | .....QTLESQKMVNRYPSNATI...QSIYGSNVSPL..QGKALYTLAFTTL.NDSTWVLTATP.....IANTS   | 107 |
| NTDB id 1383  | A4U84 RS08530 WP 005711781.1    | .....SDVEICIIYNVGDKKISECS.....S...GK.NGVRADKSDVPDAKYLSISV...ASCVITVAG        | 109 |
| NTDB id 1365  | NTHI RS01955 WP 011271973.1     | .....ADVELCVYSTNE..TTNCT.....G...GK.NGIAADITT..AKGYVKSVTT...SNGAITVKG        | 104 |
| NTDB id 1354  | HI 0299 AAC21963.1              | .....ADVELCVYSTNE..TTNCT.....G...GK.NGIAADIKT..AKGYVASVIT...QSGGITVKG        | 104 |
| NTDB id 1064  | ABD1 RS15725 WP 001046490.1     | .....EQLEQHKSRNFTYRGFTTT.....SI.TLPR...GG.YTIQ.....ITDDT                     | 92  |
| NTDB id 1088  | NMV RS07470 WP 173277181.1      | .....NISKQFILKNPLDDNQTIKSKLERFVSGYKMNPKIAEK.Y.....NVSVHF                     | 94  |
| NTDB id 1140  | NGFG RS02440 WP 025455870.1     | .....NVTKQFILKNPQDDNDILKSKLEIFVSGYKMNPKIAKK.Y.....SVSVRF                     | 94  |
| NTDB id 1400  | DSB67 RS12660 WP 010643261.1    | .....LAVELCAHEHAADAGAFKT.....KCHQTANGIPAA.FTLN.NLTVTP.....AAGAASCAISITV      | 109 |
| NTDB id 1292  | VP RS12235 WP 005479693.1       | .....TPAELHYQENGIAAAATLA...QLGVDV.....A.ANDLGAIDSAL.....AGG..SPTLTFTF        | 103 |
| NTDB id 1119  | NGFG RS11465 WP 017147169.1     | .....SAVTEYYLNLHGKWPENNTS...AGVASP...PTDIKKG.Y.....VKEVEV...KNCVVATM         | 99  |
| NTDB id 1109  | OK783 RS10670 WP 157147416.1    | .....SAVTEYYLNLHGKWPENNTS...AGVASA...STIKKG.Y.....VQKVEV...AKCVVTAQM         | 98  |
| NTDB id 1197  | PSJM300 03940 AFN76866.1        | .....IGFEQAINEGKTPSLTSTD...EGYIGITDSTS.....YCDVDLDT                          | 90  |
| NTDB id 1204  | PSJM300 03935 AFN76865.1        | .....AAFEQAISEGHTPSLVSSL...PGFIGIGASTN.....YCTVILIA                          | 92  |
| NTDB id 1424  | RS RS02795 WP 011000517.1       | .....ALVSENAANAQSDLSVGSS...VFTPTKNVAN.....L.....TIAGTGTVPGQITVTY             | 104 |
| NTDB id 1002  | ACIAD RS15100 WP 004923779.1    | .....TTVSENILNAGALVAGTPS...TAGSSCVGVQE.....ISASNATTNVATATCGASSAQIIVTM        | 107 |
| NTDB id 1274  | LPP RS09530 WP 011214168.1      | .....LAVSETAITNNALPATQAA...TGYVSPAATPN.....VA..SIA..IG...ANGVITITY           | 95  |
| NTDB id 1258  | GCO85 RS09745 WP 014844212.1    | .....LAVSETAITNNALPATQAA...TGYVSPAATPN.....VQ..SIA..IG...ANGVITITY           | 95  |
| NTDB id 1192  | PAKAF RS23870 WP 024947914.1    | .....TTVEALSRGWSVKSGTGT...EDATKK.EVPLGVAAD.ANKLGTIALKP.....DP.ADG..TADITLTF  | 108 |
| NTDB id 1191  | AAC28468.1 484..945( )          | .....TDLGAWRADRGSFNPAAAL...VAGNVIFDSANGLDGK.YFAPGGVTVTP.....D...TCAINIAF     | 107 |
| NTDB id 1184  | GTF74 RS02335 WP 000649326.1    | .....TNIEDYIATEGSFPATTAG...TAAG.....FTRLGTVEDMGDGKIVIAPTASGALGCTIKYTF        | 111 |
| NTDB id 1167  | A1552VC RS11065 WP 000649326.1  | .....TNIEDYIATEGSFPATTAG...TAAG.....FTRLGTVEDMGDGKIVIAPTASGALGCTIKYTF        | 111 |
| NTDB id 1160  | ABDM36 RS02330 WP 000649326.1   | .....TNIEDYIATEGSFPATTAG...TAAG.....FTRLGTVEDMGDGKIVIAPTASGALGCTIKYTF        | 111 |
| NTDB id 1188  | NELON RS01755 WP 003772458.1    | .....SALSEAFQTDGITGMTAAA...KAFNKT.AAAG...GG.AGGAAAAGTQHASKYVK.....SVKVTEASPW | 109 |
| NTDB id 1038  | HON27 RS01510 WP 000993725.1    | .....TGYENAVNEGAVPT.KLSD...VGFTAATSSVC...AT.YSIDAFTETDGAGK.....ITCTLKGNP     | 104 |
| NTDB id 1415  | SGL RS07945 WP 010872381.1      | .....RAQCGYFTEKGTATDTET...LEVLP...APD...GN.FFSFAVNTADNTEA.....IQDATALNW      | 116 |
| NTDB id 30809 | EMIN RS08875 WP 012414839.1     | .....TTINTNLQAGTCFAGGATA...VTAA...DKVS...GK.YGDAEIGGTAP.....NCTITYTF         | 48  |
| NTDB id 1079  | FDQ49 RS11140 WP 022575996.1    | .....TTINTNLQAGTCFAGGATA...VTAA...DKVS...GK.YGDAEIGGTAP.....NCTITYTF         | 98  |
| consensus     |                                 | .....**.....*.....*.....*                                                    |     |

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| NTDB id 1187 NEISUBOT RS06510 WP 050767750.1 | TLKAVALDREA...E.....PRVLRNLNESLTAVVCGK.....                                      | 138 |
| NTDB id 1085 NMV RS10945 WP 002218144.1      | MLKAVAIDKDK...N.....PFI IKMNENLVTFICKK.....                                      | 126 |
| NTDB id 1117 NGFG RS06520 WP 002214937.1     | MLKAVAIDKDK...N.....PFI IKMNENLVTFICKK.....                                      | 126 |
| NTDB id 1195 PAKAF RS24020 WP 016253895.1    | AEQV....KNELPGAGDLLM.....SDYVIC.....RS                                           | 138 |
| NTDB id 1007 ACIAD RS15000 WP 004923844.1    | QAGN.GI.....ICLNQDCQKFWSKAATACSL.....                                            | 135 |
| NTDB id 1062 ABD1 RS15720 WP 000788345.1     | QAGD.GI.....ICLNDDCQKFWAKGATDCAL.....                                            | 133 |
| NTDB id 1383 A4U84 RS08530 WP 005711781.1    | KGN.....IDGYGY.....TMTP.KFANNNITWATSCQGADI.....SLFPAN                            | 146 |
| NTDB id 1365 NTHI RS01955 WP 011271973.1     | DGT.....LANMEY.....ILQATGNAATGVTWTTTCKGTDA.....SLFPAN                            | 142 |
| NTDB id 1354 HI 0299 AAC21963.1              | NGT.....LANMEY.....ILQAKGNAAAGVTWTTTCKGTDA.....SLFPAN                            | 142 |
| NTDB id 1064 ABD1 RS15725 WP 001046490.1     | TTGN.....LTLNTAANGQTWVIKATTTDSRNFNFIAKNSGLRCQSITAT                               | 137 |
| NTDB id 1088 NMV RS07470 WP 173277181.1      | VNKE.KPRAYSLVGVPKGTGTGY...T.....LSVWMNSV..GDGYKCRDAASAR.....AHLETL               | 143 |
| NTDB id 1140 NGFG RS02440 WP 025455870.1     | VDAE.KPRAYRLVGVPNAGTGY...T.....LSVWMNSV..GDGYKCRDATSAQ.....VYLETL                | 143 |
| NTDB id 1400 DSB67 RS12660 WP 010643261.1    | NAAN.....DKGPIKQNE.....KYILTATYASNGVTWSSEC.....KDATNAVQTS                        | 151 |
| NTDB id 1292 VP RS12235 WP 005479693.1       | DADS.....SIDGG.....ITFTTRDAATGWSCLPTAPAI.....                                    | 133 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1     | LSS.....GVNNEIKGK...K.....LSLWGRRENC SVKWFCGQPVTRADDDTV..AD..AKDGKEIDTK          | 152 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1    | AST.....GVNKEIQDK...K.....LSLWAKRQDC SVKWFCGQPVTRTGDND..TV..ADANNAIDTK           | 151 |
| NTDB id 1197 PSJM300 03940 AFN76866.1        | AADG.HIECTAKGGNAGKFDGK...TIT.....LNRTA..DGEWSC.....ASTIDAK                       | 132 |
| NTDB id 1204 PSJM300 03935 AFN76865.1        | TATG.SITCTTQNGMPDRFNGK...TIT.....IARTT..DGLWDC.....TSDIDSR                       | 134 |
| NTDB id 1424 RS RS02795 WP 011000517.1       | TTAA.....GGG.....TLALVPTAAGTALPVSSAPSGPIMWTCYAQNKAQAASSV..AP...SGTMSIAAK         | 161 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1    | DT.....TKAKGA.....NIT.....LTPTYASCAVTWKC.....TTTSDKK                             | 139 |
| NTDB id 1274 LPP RS09530 WP 011214168.1      | TAAA.....GG....G....TIV.....MTPTLQANGDVTWTCT.....GGTILAK                         | 128 |
| NTDB id 1258 GCO85 RS09745 WP 014844212.1    | TAAA.....GG....G....TII.....MTPTLQANGDVTWTCT.....GGTILAK                         | 128 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1    | TMG.....GAGPKNKG.....KIITLRTAADGLWKC.....TSDQDEQ                                 | 142 |
| NTDB id 1191 AAC28468.1 484..945( )          | DAGA.N.....AGK.....TMTITPT.....VIAASGQISTWTCAPGAANG.....IETR                     | 146 |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1    | DAGV.....V...SS..SKIQLARDANG..LWTC.....STTVTSE                                   | 140 |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1  | DAGV.....V...SS..SKIQLARDANG..LWTC.....STTVTSE                                   | 140 |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1   | DAGV.....V...SS..SKIQLARDANG..LWTC.....STTVTSE                                   | 140 |
| NTDB id 1188 NELON RS01755 WP 003772458.1    | DITV.AISATEANGIPTGLDGN...TIRLFPLV..NKAVPAATSTCAIDWACASAAKETADKRF..GTGSGVAVGTIPAK | 181 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1    | KIA.....TK..IVE.....LTRSTDCAW..TC.....VSDVPTE                                    | 130 |
| NTDB id 1415 SGL RS07945 WP 010872381.1      | EAD.....GTRSMSGGTFYDSGTRAFSTV.....VCRAEAG.....SEDTPPT                            | 154 |
| NTDB id 30809 EMIN RS08875 WP 012414839.1    | .....                                                                            | 48  |
| NTDB id 1079 FDQ49 RS11140 WP 022575996.1    | KSS.....GVSNKLT.....STK...IV.....MNVSETCILTKNs.....GTDTPVE                       | 133 |
| consensus                                    | .....*.....*                                                                     |     |

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| NTDB id 1187 NEISUBOT RS06510 WP 050767750.1 | .....MKGKGSCTDGEEIFRGNDAECPFTG.....                | 164 |
| NTDB id 1085 NMV RS10945 WP 002218144.1      | .....SASSCSDGLDYFKGNDKDCKLFK.....                  | 149 |
| NTDB id 1117 NGFG RS06520 WP 002214937.1     | .....SASSCSDGLDYFKGNDKDCKLLK.....                  | 149 |
| NTDB id 1195 PAKAF RS24020 WP 016253895.1    | SKPGDGDGKGSMLEI...RLAWRGKQGACVNAADSSADTSLCYITLRVEP | 185 |
| NTDB id 1007 ACIAD RS15000 WP 004923844.1    | .....SSNSTWDGR.....                                | 144 |
| NTDB id 1062 ABD1 RS15720 WP 000788345.1     | .....SASSSWTE.....                                 | 141 |
| NTDB id 1383 A4U84 RS08530 WP 005711781.1    | FCGQKATP.....                                      | 154 |
| NTDB id 1365 NTHI RS01955 WP 011271973.1     | FCGSVTQ.....                                       | 149 |
| NTDB id 1354 HI 0299 AAC21963.1              | FCGSVTK.....                                       | 149 |
| NTDB id 1064 ABD1 RS15725 WP 001046490.1     | AVDNDGCGGTVTCNVCETNSENWQ.....                      | 160 |
| NTDB id 1088 NMV RS07470 WP 173277181.1      | SSDVGCEAFSNRKK.....                                | 157 |
| NTDB id 1140 NGFG RS02440 WP 025455870.1     | SANTGCEAFSNRKK.....                                | 157 |
| NTDB id 1400 DSB67 RS12660 WP 010643261.1    | YCP.....                                           | 154 |
| NTDB id 1292 VP RS12235 WP 005479693.1       | .AVDGC.....                                        | 139 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1     | HLFSTCRDKASDAK.....                                | 166 |
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| NTDB id 1197 PSJM300 03940 AFN76866.1        | YKPGKCS.....                                       | 139 |
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| NTDB id 1258 GC085 RS09745 WP 014844212.1    | YRPASCRP.....                                      | 136 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1    | FIPKGCCK.....                                      | 150 |
| NTDB id 1191 AAC28468.1 484..945( )          | RLPTSCQ*.....                                      | 153 |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1    | IAPKGCTAGATIN.....                                 | 153 |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1  | IAPKGCTAGATIN.....                                 | 153 |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1   | IAPKGCTAGATIN.....                                 | 153 |
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| NTDB id 1038 HON27 RS01510 WP 000993725.1    | FLPKGCTAGTPTEGAITSLSL.....                         | 149 |
| NTDB id 1415 SGL RS07945 WP 010872381.1      | ...PGGANDCGGAIEVIK.....                            | 168 |
| NTDB id 30809 EMIN RS08875 WP 012414839.1    | .....                                              | 48  |
| NTDB id 1079 FDQ49 RS11140 WP 022575996.1    | LLPQS FVAS.....                                    | 142 |
| consensus                                    | * *                                                |     |

- non conserved
- similar
- ≥ 50% conserved