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|                 |            |             |                |             |      |        |        |      |      |      |      |       |        |      |        |       |      |      |      |        |           |            |    |
|-----------------|------------|-------------|----------------|-------------|------|--------|--------|------|------|------|------|-------|--------|------|--------|-------|------|------|------|--------|-----------|------------|----|
| NTDB id 1184    | GTF74      | RS02335     | WP 000649326.1 | ...MKAYKNKQ | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPQY | QNYV  | KKSA   | IGV  | GLAN   | ITAL  | KTNI | EDYI | ATEG | SFP    | PATT      | AGT..      | 75 |
| NTDB id 1167    | A1552VC    | RS11065     | WP 000649326.1 | ...MKAYKNKQ | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPQY | QNYV  | KKSA   | IGV  | GLAN   | ITAL  | KTNI | EDYI | ATEG | SFP    | PATT      | AGT..      | 75 |
| NTDB id 1160    | ABDM36     | RS02330     | WP 000649326.1 | ...MKAYKNKQ | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPQY | QNYV  | KKSA   | IGV  | GLAN   | ITAL  | KTNI | EDYI | ATEG | SFP    | PATT      | AGT..      | 75 |
| NTDB id 1292    | VP         | RS12235     | WP 005479693.1 | ...MKHSKQKK | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPAY | QNYV  | TRSE   | VTS  | GLAT   | VKAL  | ITPA | ELHY | QENG | I.AAAA | .....     | 71         |    |
| NTDB id 1038    | HON27      | RS01510     | WP 000993725.1 | .....MNA    | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPQY | QNYA  | KSQV   | NSGF | SEISSI | KTGY  | ENAV | NEG  | AV.  | PTKL   | SD...     | 68         |    |
| NTDB id 1192    | PAKAF      | RS23870     | WP 024947914.1 | .....MKA    | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPQY | QNYV  | ARSE   | GA   | SLAS   | VNPL  | KTIT | VEE  | ALS  | RGS    | W.V       | KSGTGTED   | 71 |
| NTDB id 1197    | PSJM300    | 03940       | AFN76866.1     | .....MKAQM  | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPAY | QDYTV | RSNAAA | ALA  | EITPG  | KIG   | FEQ  | AINE | GKT. | PSLT   | STD..     | 71         |    |
| NTDB id 1191    | AAC28468.1 | 484..945( ) |                | .....MLKKV  | QKGF | TLIELM | MIV    | IAI  | GILA | AAIA | IPAY | QDYTA | RAQA   | TEG  | FKAT   | AGLQ  | TDL  | GAW  | RADR | G      | SFP       | NAAALVAG   | 74 |
| NTDB id 1400    | DSB67      | RS12660     | WP 010643261.1 | ...MKTNKQKK | QKGF | TLIELM | MIVV   | AVIG | VLA  | AAIA | IPAY | QDYTK | KAT    | MAE  | FPK    | IASST | KLAV | ELCA | HEH  | A      | A         | DAGAFKTKCH | 77 |
| NTDB id 1188    | NELON      | RS01755     | WP 003772458.1 | .....MKAM   | QKGF | TLIELM | MIV    | IAI  | GILA | AAIA | IPAY | QDYTV | RSKV   | VSE  | ALIA   | AASSP | KSAL | SEAF | QTD  | G      | ITG       | MATAAKAF   | 73 |
| NTDB id 1109    | OK783      | RS10670     | WP 157147416.1 | .....MNTL   | QKGF | TLIELM | MIV    | IAI  | GILA | AAIA | IPAY | QDYTA | RAQV   | SEA  | ILLA   | EGQK  | SAV  | TEYY | LNH  | G      | IWP       | PKDNT....  | 69 |
| NTDB id 1119    | NGFG       | RS11465     | WP 017147169.1 | .....MNTL   | QKGF | TLIELM | MIV    | IAI  | GILA | AAIA | IPAY | QDYTA | RAQV   | SEA  | ILLA   | EGQK  | SAV  | TEYY | LNH  | G      | KWP       | PENNT....  | 69 |
| NTDB id 1424    | RS         | RS02795     | WP 011000517.1 | MKSMRHLNKR  | V    | QKGF   | TLIELM | MIVV | AVIG | VLA  | AAIA | IPAY  | QDYTV  | RRAR | VTE    | GLS   | LAQA | KALV | SENA | ANA    | QSD       | LSVGS....  | 76 |
| NTDB id 1002    | ACIAD      | RS15100     | WP 004923779.1 | .....MNA    | QKGF | TLIELM | MIV    | IAI  | GILA | AAIA | IPAY | TDYTV | RRAR   | VSE  | GLTA   | ASSM  | KTIV | SENI | LNA  | GAL    | VAGTP.... | 68         |    |
| NTDB id 1000092 | ABFU73     | RS05405     | WP 011038214.1 | .....MKK    | QNGF | TLIELM | MIVV   | AVI  | AIL  | AAIA | IPAY | QDYL  | LARS   | QV   | SEGL   | SLAS  | GAKT | AVA  | EY   | ANT    | GAF       | PATNA....  | 68 |
| NTDB id 1274    | LPP        | RS09530     | WP 011214168.1 | .....MR     | QKGF | TLIELM | MIVV   | AVI  | GILA | AAIA | IPAY | QDYTI | IRAR   | VTE  | GLTL   | ADSA  | KLAV | SE   | TAIT | NNAL   | PAT       | QA....     | 67 |
| NTDB id 1258    | GC085      | RS09745     | WP 014844212.1 | .....MR     | QKGF | TLIELM | MIVV   | AVI  | GILA | AAIA | IPAY | QDYTI | IRAR   | VTE  | GLTL   | ADSA  | KLAV | SE   | TAIT | NNAL   | PAT       | QA....     | 67 |
| consensus       |            |             |                |             | !    | *      | !      | !    | !    | !    | !    | !     | !      | *    | !      | *     | !    | !    | !    | !      | *         | *          |    |

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|                 |            |             |                |                |              |           |          |            |            |              |          |           |        |       |     |     |     |
|-----------------|------------|-------------|----------------|----------------|--------------|-----------|----------|------------|------------|--------------|----------|-----------|--------|-------|-----|-----|-----|
| NTDB id 1184    | GTF74      | RS02335     | WP 000649326.1 | .....AACF..... | TRLG.....    | TVED....  | MGD      | GKIV       | IAPT       | ASGAL        | GGT      | IKYT.F.   | DAGV   | VSSSK | IQL | 123 |     |
| NTDB id 1167    | A1552VC    | RS11065     | WP 000649326.1 | .....AACF..... | TRLG.....    | TVED....  | MGD      | GKIV       | IAPT       | ASGAL        | GGT      | IKYT.F.   | DAGV   | VSSSK | IQL | 123 |     |
| NTDB id 1160    | ABDM36     | RS02330     | WP 000649326.1 | .....AACF..... | TRLG.....    | TVED....  | MGD      | GKIV       | IAPT       | ASGAL        | GGT      | IKYT.F.   | DAGV   | VSSSK | IQL | 123 |     |
| NTDB id 1292    | VP         | RS12235     | WP 005479693.1 | ...T..LAQL     | GVDVAA.....  | NDLG..... | A        | IDSAL..... | AGS        | SPTL.....    | TFT.FD   | ADSS      | ID     | GGI   | LTF | 116 |     |
| NTDB id 1038    | HON27      | RS01510     | WP 000993725.1 | .....VG        | FTAAT.....   | SSVC..... | ATYS     | IDAFT      | ETD        | GAGKI.....   | TCTLK..  | GNPKI     | AT     | KI    | VEL | 113 |     |
| NTDB id 1192    | PAKAF      | RS23870     | WP 024947914.1 | ATKK..EVPL     | GVAADA.....  | NKLG..... | TIA      | LKP.DP     | ADGT       | ADIT.....    | LTFT     | MG        | GAGPK  | NKGI  | ITL | 124 |     |
| NTDB id 1197    | PSJM300    | 03940       | AFN76866.1     | .....EGYI      | GITDS.....   | TSYC..... | DVD.LD.. | TAAD       | GHI.....   | ECTA         | KGN      | AGK       | FD     | GKT   | ITL | 115 |     |
| NTDB id 1191    | AAC28468.1 | 484..945( ) |                | NVI.....       | FDSA.....    | NGLD      | GKYF     | FAPGG      | VTVT...PDT | GA.....      | INIA     | FDA..     | GANA   | GKT   | MTI | 119 |     |
| NTDB id 1400    | DSB67      | RS12660     | WP 010643261.1 | .....QTAN      | GIPAAF.....  | TLNN      | LTV      | TPAAGA..   | ASGA.....  | ISIT         | VNAAN... | DKGP      | IKQ    | 120   |     |     |     |
| NTDB id 1188    | NELON      | RS01755     | WP 003772458.1 | NKTAAAGGG      | AGGAAAG..... | TQ        | HASKY    | VKS        | VKVTE      | ASPWDITV     | AI.....  | SATE      | ANGIPT | GLD   | GNT | IRL | 134 |
| NTDB id 1109    | OK783      | RS10670     | WP 157147416.1 | .....SAGV      | ASA.....     | STIK      | GKYV     | QKVE       | VAKGV      | VTA.....     | QMAST    | GVN       | KEIQ   | DKKL  | SL  | 114 |     |
| NTDB id 1119    | NGFG       | RS11465     | WP 017147169.1 | .....SAGV      | ASPP.....    | TDIK      | GKYV     | KEVE       | VKNGV      | VTA.....     | TMLSS    | GVN       | NEIK   | GKKL  | SL  | 115 |     |
| NTDB id 1424    | RS         | RS02795     | WP 011000517.1 | .....S.....    | VFTPT        | KNVAN     | LTI      | AGTGT      | V...GQ     | .....        | ITVT     | YT...TAAG | GGT    | LAL   | 115 |     |     |
| NTDB id 1002    | ACIAD      | RS15100     | WP 004923779.1 | .....STAG      | SSCV         | GVQE      | ISAS     | NATT       | NVAT       | ATCGASS..... | A.....   | GQII      | VTM    | DTTK  | KAN | ITL | 119 |
| NTDB id 1000092 | ABFU73     | RS05405     | WP 011038214.1 | .....AAG       | LEAA.....    | ANIK      | GKYV     | TSVT       | VGAGG..... | I.....       | ITAA     | FNTA      | NAK    | LSGKN | LVL | 112 |     |
| NTDB id 1274    | LPP        | RS09530     | WP 011214168.1 | .....ATGY      | VSP.....     | AA..TP    | NV       | ASIA       | IGANG..... | V.....       | ITIT     | YTAAA...  | GGGT   | IVM   | 106 |     |     |
| NTDB id 1258    | GC085      | RS09745     | WP 014844212.1 | .....ATGY      | VSP.....     | AA..TP    | NV       | QSI        | IGANG..... | V.....       | ITIT     | YTAAA...  | GGGT   | IIM   | 106 |     |     |
| consensus       |            |             |                |                | *            | *         |          | *          |            | *            |          | *         |        | *     | *   | *   |     |

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|                 |            |             |                |                                                                 |     |
|-----------------|------------|-------------|----------------|-----------------------------------------------------------------|-----|
| NTDB id 1184    | GTF74      | RS02335     | WP 000649326.1 | .....AR.DANGLWTCST.....TVTSEIAPKGCTAGATIN.....                  | 153 |
| NTDB id 1167    | A1552VC    | RS11065     | WP 000649326.1 | .....AR.DANGLWTCST.....TVTSEIAPKGCTAGATIN.....                  | 153 |
| NTDB id 1160    | ABDM36     | RS02330     | WP 000649326.1 | .....AR.DANGLWTCST.....TVTSEIAPKGCTAGATIN.....                  | 153 |
| NTDB id 1292    | VP         | RS12235     | WP 005479693.1 | .....TR.DAATGWSCLP.....TAPAIA.VDGCS.....                        | 139 |
| NTDB id 1038    | HON27      | RS01510     | WP 000993725.1 | .....TR.STDGAWTCVS.....DVPTEFLPKGCTAGTPTEGAITSL                 | 149 |
| NTDB id 1192    | PAKAF      | RS23870     | WP 024947914.1 | .....TRTAADGLWKCTS.....DQDEQFIPKGCSK.....                       | 150 |
| NTDB id 1197    | PSJM300    | 03940       | AFN76866.1     | .....NR.TADGEWSCAS.....TLDAKYKPGKCS.....                        | 139 |
| NTDB id 1191    | AAC28468.1 | 484..945( ) |                | TPTVI.....AASGQISTWTCAPG.....AANGIETBRLPTSCQ*                   | 153 |
| NTDB id 1400    | DSB67      | RS12660     | WP 010643261.1 | ....NEKYILTATYASNGVTWSSECKD.....ATNAVQTSYCP.....                | 154 |
| NTDB id 1188    | NELON      | RS01755     | WP 003772458.1 | FPLVNKA.VP.AATSTGAIDWACASAAKETADKRFGTGSGVAVGTLPAKYAPSECK.....   | 188 |
| NTDB id 1109    | OK783      | RS10670     | WP 157147416.1 | WA.....KRQDGSVKWFCGQPVRTGDNDDTVAD..ANNAIDTKHLPSTCRDESSAT.....   | 164 |
| NTDB id 1119    | NGFG       | RS11465     | WP 017147169.1 | WG.....RRENGSVKWFCGQPVTRADDDTVADAK..DGKEIDTKHLPSTCRDKASDAK..... | 166 |
| NTDB id 1424    | RS         | RS02795     | WP 011000517.1 | VPTAAGTALPVSSAPSGPIMWTCYAQNKAQAAS.SVAPS..GTMSLAAKYAPAECR.....   | 168 |
| NTDB id 1002    | ACIAD      | RS15100     | WP 004923779.1 | TP.....TYASGAVTWKCTT.....TSDKKYVPSECRG.....                     | 147 |
| NTDB id 1000092 | ABFU73     | RS05405     | WP 011038214.1 | TP.....TDNNGSISWGCTNG.....TTIDQKYLPTS CRTAAAP.....              | 146 |
| NTDB id 1274    | LPP        | RS09530     | WP 011214168.1 | TPT.....LQANGDVTWTCCTGG.....TLL.AKYRPASCRP.....                 | 136 |
| NTDB id 1258    | GC085      | RS09745     | WP 014844212.1 | TPT.....LQANGDVTWTCCTGG.....TLL.AKYRPASCRP.....                 | 136 |
| consensus       |            |             |                | .....*!***.....*                                                |     |

- non conserved
- similar
- ≥50% conserved