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| NTDB id 600 KW2 RS01765 WP 011675413.1      | MATK.....KKTNFDDITKKYGA | ERDKALADALALIEKD | FGKGSIMRLG         | AAA.NQKVS            | VSSGSLALDI           | ALGAGGYPKGR  | 74                  |             |    |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | .MAK.....KPKKLEEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 228 SPD RS09265 WP 001085462.1      | .MAK.....KPKKLEEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 194 SPR RS08825 WP 001085462.1      | .MAK.....KPKKLEEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 159 SP RS09750 WP 001085462.1       | .MAK.....KPKKLEEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | .MAK.....KPKKLDEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | .MAK.....KPKKLDEISKKFGA | EREKALNDALKLI    | IEKDFGKGSIMRLGERA  | .EQKVQVMSSGSLALDI    | ALGSGGYPKGR          | 73           |                     |             |    |
| NTDB id 453 Spy49 1753c ACI62003.1          | .MAK.....KLKKNEEITKKFGD | ERRKALDDALKN     | IEKDFGKGAVMRLGERA  | .EQKVQVMSSGSLALDI    | ALGAGGYPKGR          | 73           |                     |             |    |
| NTDB id 408 SMU RS09530 WP 002262392.1      | .MAK.....RIKKTEEITKKFGD | ERRKALDDALKN     | IEKDFGKGAVMRLGERA  | .EQKVQVMSSGSLALDI    | ALGAGGYPKGR          | 73           |                     |             |    |
| NTDB id 115 BSU 16940 NP 389576.2           | .....MS                 | DRQAALDMALKQ     | IEKQFGKGSIMKLG     | EKT.DTRISTVPSGSLALDI | TALGIGGYPRGR         | 58           |                     |             |    |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....MAKD               | ERQAALDAALKK     | IEKNFGKGSIMRMGE    | KV.DTQVSTVSSGSLALDE  | ALGVGGYPRGR          | 60           |                     |             |    |
| NTDB id 1313 DR RS12030 WP 010888966.1      | .....MSKDATKEISAPTD     | AKERSKATETAM     | SIKQIEKAFGKGSIMKLG | AES.KLDVQVVSTGSLSLDL | ALGVGGIPRGR          | 72           |                     |             |    |
| NTDB id 1245 Cj1673c YP 002345041.1         | .....MDDN               | KRKSALDAALKS     | LDKTFGKGTILRLG     | DE.VEQIDSIGTGSVGLDL  | ALGIGGVPKGR          | 59           |                     |             |    |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | .....MAIDE              | DKQKATISLAI      | KQIDKVF            | FGKGA                | LVR                  | LGD          | KQ.VEKIDSISTGSLGLDL | ALGIGGVPKGR | 61 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | .....MAIDE              | DKQKATISLAI      | KQIDKVF            | FGKGA                | LVR                  | LGD          | KQ.VEKIDAISTGSLGLDL | ALGIGGVPKGR | 61 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | .....MAK..TETTSPND      | DKKALAAVLEK      | LDKTYGKGTVMKLG     | DGTVDHNI             | IEVIPSGSLGLDL        | ALGVGGYPKGR  | 68                  |             |    |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | .MAENKKS                | SKNNT.VVKQVEPE   | QKKQALEAALA        | QIEKQFGKGSIMKLG      | QTE.QLDIESVSTGSLGLDL | ALGIGGLPMGR  | 76                  |             |    |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .....MSD                | DKSKALAAALA      | QIEKSFGKGA         | IMKMDGSQ             | QEE                  | NLE          | VISTGSLGLDL         | ALGVGGLPRGR | 60 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | .....MSD                | DKSKALAAALA      | QIEKSFGKGA         | IMKMDGSQ             | QEE                  | NLE          | VISTGSLGLDL         | ALGVGGLPRGR | 60 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | .....MSD                | DKSKALAAALA      | QIEKSFGKGA         | IMKMDGSQ             | QEE                  | NLE          | VISTGSLGLDL         | ALGVGGLPRGR | 60 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | .MEDG.....KKAASMSA      | EKQKALAAALA      | QIEKQFGKGSIMKMG    | DAE.VEPVQV           | VSTGSLGLD            | VALGVGGLPRGR | 68                  |             |    |
| NTDB id 27120 PING RS17460 WP 011771619.1   | .....MSQDKN             | KDKALAAALG       | QIEKQFGKGSIMRLG    | DDAASME              | IDS                  | VSTGSLSLD    | VALGIGGLPYGR        | 62          |    |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | .....MDEN               | KQKALAAALG       | QIEKQFGKGSIMRLG    | DNR.AMDVET           | ISTGSLSLDI           | ALGAGGLPMGR  | 59                  |             |    |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | .....MDEN               | KQKALAAALG       | QIEKQFGKGSIMRLG    | DNR.AMDVET           | ISTGSLSLDI           | ALGAGGLPMGR  | 59                  |             |    |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .....MDDN               | KSKALQAALS       | QIEKQFGKNTVMRLG    | DNT.VQAVEA           | VSTGSLTLDI           | ALGIGGLPKGR  | 59                  |             |    |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....MDEN               | KSKALQAALS       | QIEKQFGKNTVMRLG    | DNT.VQAVEA           | VSTGSLTLDI           | ALGIGGLPKGR  | 59                  |             |    |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | .....MDEN               | KKRALAAALG       | QIEKQFGKGAVMRMG    | DHD.RQAIPS           | ISTGSLGLDI           | ALGIGGLPKGR  | 59                  |             |    |
| consensus                                   |                         | * * * * *        | * * * * *          | * * * * *            | * * * * *            | * * * * *    | * * * * *           |             |    |









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