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|                                             |                 |                |               |              |                 |                   |                    |                   |                   |    |
|---------------------------------------------|-----------------|----------------|---------------|--------------|-----------------|-------------------|--------------------|-------------------|-------------------|----|
| NTDB id 1292 VP RS12235 WP 005479693.1      | ...MKHSKQKKQKGF | TLIELMIVVAIIGV | LAAAAIP       | PAYQNYVTRSEV | TSGL            | ATVKALITPAELHYQ   | .ENGIAAAA          | ....              | 71                |    |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | .....MNA        | KGF            | TLIELMIVVAIIG | LAAAI        | IPQYQNYIAKSQVNS | GFSEISSIKTGYENAVN | .EGAVPTKLSDV       | ..                | 69                |    |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | .....MKA        | KGF            | TLIELMIVVAIIG | LAAAI        | IPQYQNYVARSE    | GASALASVNPLKTTVE  | EALS.RGWSVKSGTGTED |                   | 71                |    |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | .....MKAQM      | KGF            | TLIELMIVVAIIG | LAAAI        | L               | PAYQDYTVRSNAAA    | ALAEITPGKIGFEQAIN  | .EGKTPSLTSTDE     | 72                |    |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | ....MKPVKSSC    | R              | GFS           | LIELMIVVAIIG | LAAAI           | L                 | PAYQNYTVRSTAAS     | ALAEITPAKAAFEQAIS | .EGHTPSLVSSLP     | 74 |
| NTDB id 1191 AAC28468.1 484..945( )         | .....MLKKV      | KGF            | TLIELMIV      | IAI          | IGILAAI         | AL                | PAYQDYTARAQATE     | EGFKATAGLQTD      | L                 | 74 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | .....MNTL       | KGF            | TLIELMIV      | IAI          | V               | GILAAV            | AL                 | PAYQDYTARAQVSE    | ATLLAEGQKS        | 71 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | .....MNTL       | KGF            | TLIELMIV      | IAI          | V               | GILAAV            | AL                 | PAYQDYTARAQVSE    | ATLLAEGQKS        | 71 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | .....MKAM       | KGF            | TLIELMIV      | IAI          | IGILAAI         | AL                | PAYQDYTVRSKVSE     | ALIAASSPKS        | ALSEAFQTDG        | 73 |
| NTDB id 306976 BRN52 RS16575 WP 011408068.1 | .....MKK        | Q              | KGF           | TLIELMIVVAI  | II              | A                 | LAAAI              | L                 | PAYQDYTT          | 70 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | MKSMRHLNKR      | V              | KGF           | TLIELMIVVAI  | V               | GILAAI            | A                  | IPAYQDYTVR        | ARVTEGLSLAAQAKALV | 74 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | .....MNA        | KGF            | TLIELMIV      | IAI          | IGILAAI         | A                 | IPAY               | TDYTVR            | ARVSEGLTAASSMKT   | 70 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | .....MR         | KGF            | TLIELMIVVAI   | IGILAAI      | A               | IPAYQDYT          | IRARVTEGL          | TLADSAKLAV        | SETAITNNAL        | 69 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | .....MR         | KGF            | TLIELMIVVAI   | IGILAAI      | A               | IPAYQDYT          | IRARVTEGL          | TLADSAKLAV        | SETAITNNAL        | 69 |
| consensus                                   |                 |                |               |              |                 |                   |                    |                   |                   |    |

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|---------------------------------------------|----------------|------------------|------------------|-------------------------|-------------------------|---------------------|-----------|-----|
| NTDB id 1292 VP RS12235 WP 005479693.1      | .....TLAQL     | GVDVAANDLG       | AIDSA...LAGG     | ...SPTLTFTF             | .....DADSSIDGG          | ILTFTRD             | .....     | 119 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | .....GFTAATSSV | CATYSIDAFT       | ETD...AGKIT      | .CTL...KG..NPKIATKIV    | ELTRS                   | .....               |           | 116 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | AT...KKEVPL    | GVAADANKLG       | TIALKP..DPADG    | ...TADITLTFT            | ..MGGAGPKNK             | GKIITL              | TRTA      | 128 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | .....GYI       | GITDSTS.YCDVD    | LD..TAADG        | ..H..IE.CTA..KGGNAGKFDG | KTITL                   | NR                  | T         | 118 |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | .....GFI       | GIGASTN.YC       | TVT              | LI...ATATG              | ...S..IT.CTT            | ..QNGMPDRFNGK       | TIT       | 120 |
| NTDB id 1191 AAC28468.1 484..945( )         | NVIFDSA        | .....NGLDGKYFAPG | GVTVT.PDT        | CAINIAFDAG              | .....ANAGKMT            | ITPTVI              | .....AASG | 128 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | .....G         | VASA.STIKGKYVQKV | EVAKG            | .....V                  | TAQMAS...TGVNKEIQDKKLSL | WA                  | .....KRQD | 120 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | .....G         | VASPPTDIKGKYVKEV | EVKNG            | .....V                  | TATMLS...SGVNNEIKGKKLSL | W                   | .....RREN | 121 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | NKTAAAGGGGAG   | GAAAAGTQHASKYVKS | VKVTEA..SPWD     | ITVAISATEANGIPTGLD      | GN                      | TIRLFPLVNK          | AVP.AATST | 148 |
| NTDB id 306976 BRN52 RS16575 WP 011408068.1 | .....SGY       | .....SFGATKYV    | SNV.TIADG        | ...TGLVT                | VTST.V.....PNA          | AGTILLTPKD          | .....VGG  | 116 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | .....GSSVF     | ...TPTKNVANL     | TIAGTGTVP        | QITV                    | TYT.T.....AAGGGT        | LALVPTAAGTALPVSSAPS |           | 131 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | .....AGSSCV    | GVQEISASNATTN    | VATA...TCGASSAG  | QII                     | VTMDTT                  | .....KAKGANIT       | LTPT      | 125 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | .....GYV       | .....SPAATPN     | VASI...AIGA..NGV | ITITY.TA                | .....AAGGGT             | I                   | MTPTL     | 113 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | .....GYV       | .....SPAATPN     | VQSI...AIGA..NCV | ITITY.TA                | .....AAGGGT             | I                   | MTPTL     | 113 |
| consensus                                   | *              | *                | *                | *                       | *                       | *                   | *         |     |

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|---------------------------------------------|-------------------------------------------------|-----|
| NTDB id 1292 VP RS12235 WP 005479693.1      | AATGWSCLPT.....APAIA.VDGC                       | 139 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | TDGAWTCVSD.....VPTEFLPKGCTAGTPTEGAITS           | 149 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | ADGLWKCTSD.....QDEQFIPKGC                       | 150 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | ADGEWSCAST.....LDAKYKPGKCS                      | 139 |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | TDGLWDCTSD.....LDSRYKPGKCL                      | 141 |
| NTDB id 1191 AAC28468.1 484..945( )         | QISTWTCAPG.....AANGIETRRLPTSCQ*                 | 153 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | GSVKWFCGQPVTRTGDNDTVA..DANNAIDTKHLPSTCRDESSAT   | 164 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | GSVKWFCGQPVTRADDDTVADA..KDGKEIDTKHLPSTCRDKASDAK | 166 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | GAIDWACASAAKETADKRFGTGSGVAVGTLPAKYAPSECK        | 188 |
| NTDB id 306976 BRN52 RS16575 WP 011408068.1 | GQLKWTCSA.....ILTKYLPACRSGT                     | 141 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | GPIMWTCYAQNKAQAASSVAPS...GTMSLAAKYAPACR         | 168 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | GAVTWKCTTT.....S.DKKYVPSECRG                    | 147 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | GDVTWTCTGG.....TLAKYRPASCRP                     | 136 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | GDVTWTCTGG.....TLAKYRPASCRP                     | 136 |
| consensus                                   | * * !*!                                         |     |

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved