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|                                             |              |          |          |          |          |        |        |        |        |        |        |        |        |        |        |        |    |
|---------------------------------------------|--------------|----------|----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | ....MNTLQKGF | TLIELMIV | IAIVG    | ILAAVAL  | PAYQ     | DYTAR  | QVSE   | ATLLA  | EQGK   | SAVTE  | EYYLN  | HGK    | W      | PENNT  | SAGV   | ASP    | 76 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | ....MNAQKGF  | TLIELMIV | IAIIG    | ILAAIAIP | AYTD     | YTVR   | ARV    | SEGLT  | AASS   | MKTTV  | SENIL  | NAG    | ALV    | AGT    | PST    | AG...  | 72 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | ...MKAQM     | QKGF     | TLIELMIV | VAIIG    | ILAAIAL  | PAYQ   | DYTV   | RSN    | AAAA   | AEITP  | GKIG   | FEQA   | INE    | GK     | TPSL   | TST    | 75 |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1   | MKAYKNKQ     | QKGF     | TLIELMIV | VAVIG    | VLA      | AAIAIP | QYQNY  | VKK    | SAI    | GVGL   | ANIT   | AL     | KTN    | IEDY   | IATE   | GSFP   | 80 |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1 | MKAYKNKQ     | QKGF     | TLIELMIV | VAVIG    | VLA      | AAIAIP | QYQNY  | VKK    | SAI    | GVGL   | ANIT   | AL     | KTN    | IEDY   | IATE   | GSFP   | 80 |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1  | MKAYKNKQ     | QKGF     | TLIELMIV | VAVIG    | VLA      | AAIAIP | QYQNY  | VKK    | SAI    | GVGL   | ANIT   | AL     | KTN    | IEDY   | IATE   | GSFP   | 80 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | ....MKA      | QKGF     | TLIELMIV | VAIIG    | ILAAIAIP | QYQNY  | V      | AR     | SE     | GAS    | ALAS   | VN     | PL     | KTT    | V      | E      | 71 |
| NTDB id 405426 GOQ05 RS17355 WP 000993726.1 | ....MNA      | QKGF     | TLIELMIV | VAIIG    | ILAAIAIP | QYQNY  | V      | GR     | SN     | VAA    | VQ     | TL     | TS     | NK     | S      | G      | 75 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | ....MNA      | QKGF     | TLIELMIV | VAIIG    | ILAAIAIP | QYQNY  | T      | A      | K      | S      | Q      | V      | N      | S      | G      | F      | 72 |
| consensus                                   | !!!!!!       | !!!!!!   | !!!!!!   | !!!!!!   | !!!!!!   | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! | !!!!!! |    |

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|---------------------------------------------|-----------|-----------|---------|---------|--------|--------|------|-------|-------|-----|------|------|-------|-----|------|-------|-----|
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | P....TDIK | .....GKYV | ...KE   | VEVKN   | GV     | VTAT   | MLSS | GVNNE | IKGKK | IS  | LWGR | RENG | SVK   | WFC | GQP  | VTR   | 134 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | ....SSC   | VGVE      | ISAS    | NAT     | ....TN | VAT    | ATCG | ASS   | AGQ   | IIV | TMD  | TT   | ....K | AKG | ANIT | LTPT  | 136 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | GITD      | STSY      | .....CD | ....V   | DL     | TAAD   | GHI  | E     | CTAK  | GCN | AGK  | FD   | GKT   | IT  | LN   | R     | 129 |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1   | RLGT      | VED       | MGD     | .....GK | IV     | IAPT   | AS   | GAL   | G     | GT  | IKY  | T    | F     | D   | AGV  | ....V | 137 |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1 | RLGT      | VED       | MGD     | .....GK | IV     | IAPT   | AS   | GAL   | G     | GT  | IKY  | T    | F     | D   | AGV  | ....V | 137 |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1  | RLGT      | VED       | MGD     | .....GK | IV     | IAPT   | AS   | GAL   | G     | GT  | IKY  | T    | F     | D   | AGV  | ....V | 137 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | .....     | ATK       | KEV     | PLG     | V      | A      | A    | D     | ANK   | L   | G    | T    | I     | A   | L    | K     | 139 |
| NTDB id 405426 GOQ05 RS17355 WP 000993726.1 | TAN       | PP        | V       | A       | A      | T      | R    | G     | E     | R   | P    | Q    | D     | L   | G    | I     | 146 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | AAT       | SS        | V       | C       | A      | .....T | YS   | I     | D     | A   | F    | T    | E     | T   | D    | G     | 127 |
| consensus                                   | *         |           |         |         | *      | *      | *    | *     | *     | *   | *    | *    | *     | *   | *    | *     |     |

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|                                             |                        |                        |     |
|---------------------------------------------|------------------------|------------------------|-----|
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | ADDDTVADAKDGKEIDTKHLPS | TCRDKASDAK.....        | 166 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | .....                  | DKKYVPSECRG.....       | 147 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | .....                  | DAKYKPKGCS.....        | 139 |
| NTDB id 1184 GTF74 RS02335 WP 000649326.1   | .....                  | TSEIAPKGCTAGATIN.....  | 153 |
| NTDB id 1167 A1552VC RS11065 WP 000649326.1 | .....                  | TSEIAPKGCTAGATIN.....  | 153 |
| NTDB id 1160 ABDM36 RS02330 WP 000649326.1  | .....                  | TSEIAPKGCTAGATIN.....  | 153 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | .....                  | DEQFIPKGCSK.....       | 150 |
| NTDB id 405426 GOQ05 RS17355 WP 000993726.1 | .....                  | DEKFAAKACPVGTPQ.....   | 161 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | .....                  | PTFELPKGCTAGTPTEGAITSL | 149 |
| consensus                                   | ****                   | * * * * ! * * *        |     |

- X non conserved
- X similar
- X ≥ 50% conserved