

[illegible]

|           |    |        |            |             |            |             |              |             |           |         |           |          |        |         |           |        |          |                   |                   |        |              |           |   |
|-----------|----|--------|------------|-------------|------------|-------------|--------------|-------------|-----------|---------|-----------|----------|--------|---------|-----------|--------|----------|-------------------|-------------------|--------|--------------|-----------|---|
| NTDB      | id | 1184   | GTF74      | RS02335     | WP         | 000649326.1 | .....GF..... | TRLG        | TVE.....  | DM      | GDGK      | IV       | IAPTAS | SGALGGT | IKYTFDAGV | VSSSK  | IQLARD.. | 126               |                   |        |              |           |   |
| NTDB      | id | 1167   | A1552VC    | RS11065     | WP         | 000649326.1 | .....GF..... | TRLG        | TVE.....  | DM      | GDGK      | IV       | IAPTAS | SGALGGT | IKYTFDAGV | VSSSK  | IQLARD.. | 126               |                   |        |              |           |   |
| NTDB      | id | 1160   | ABDM36     | RS02330     | WP         | 000649326.1 | .....GF..... | TRLG        | TVE.....  | DM      | GDGK      | IV       | IAPTAS | SGALGGT | IKYTFDAGV | VSSSK  | IQLARD.. | 126               |                   |        |              |           |   |
| NTDB      | id | 1038   | HON27      | RS01510     | WP         | 000993725.1 | .....GFTAAT  | SSVCATYSIDA | ..FTETD   | GAGK    | IT..CTLKG | .....    | NP     | KIATKI  | VELTRS..  | .....  | 116      |                   |                   |        |              |           |   |
| NTDB      | id | 1192   | PAKAF      | RS23870     | WP         | 024947914.1 | ATK.....     | KEVPL       | GVAADANKL | G       | TIALKP... | DPADGT   | AD     | ITLTFT  | TMGG..... | AGPKNK | GKIITL   | TRT..             | 127               |        |              |           |   |
| NTDB      | id | 1197   | PSJM300    | 03940       | AFN76866.1 | .....       | GYI          | GITDST      | S         | YCDVD   | LD....    | TAADGH.. | IE     | CTAKGG  | .....     | NAGKFD | GKTITL   | NRT..             | 118               |        |              |           |   |
| NTDB      | id | 1204   | PSJM300    | 03935       | AFN76865.1 | .....       | GFIG         | GIGASTN     | YCTVT     | LI..... | ATATGS..  | IT       | CTTQNG | .....   | MPDRFN    | GKTI   | TART..   | 120               |                   |        |              |           |   |
| NTDB      | id | 1383   | A4U84      | RS08530     | WP         | 005711781.1 | .....        | SGKNGVR     | ....      | ADKSDVP | DAKY      | LKSIS    | ....   | VASGV   | ITVAG     | KG     | NIDG     | GYTMT             | ... 122           |        |              |           |   |
| NTDB      | id | 1365   | NTHI       | RS01955     | WP         | 011271973.1 | .....        | GGKNGIA     | ....      | ADITT   | ..        | AKGYV    | KSVT   | ....    | TSNGA     | ITVKG  | GDGT     | .....             | LANMEYILQAT.. 118 |        |              |           |   |
| NTDB      | id | 1354   | HI         | 0299        | AAC21963.1 | .....       | GGKNGIA      | ....        | ADIKT     | ..      | AKGYV     | ASVI     | ....   | TSGG    | ITVKG     | NGT    | .....    | LANMEYILQAK.. 118 |                   |        |              |           |   |
| NTDB      | id | 1119   | NGFG       | RS11465     | WP         | 017147169.1 | .....        | AGVASPPT    | DIK       | GKYV    | KEVE      | ....     | VKN    | GV      | VTAT      | MLSS   | ...G     | ....              | VNNEIK            | GKKLS  | SLWG... 117  |           |   |
| NTDB      | id | 1109   | OK783      | RS10670     | WP         | 157147416.1 | .....        | AGVASA      | STIK      | GKYV    | QKVE      | ....     | VAK    | GV      | VTAQ      | MAST   | ...G     | ....              | VNKEI             | QDKKLS | SLWA... 116  |           |   |
| NTDB      | id | 1191   | AAC28468.1 | 484..945( ) |            |             | NVIFDS       | ANGLD       | GKYF      | .....   | APGGVTV   | TPDT     | GA     | INTA    | FDAG      | .....  | ANAKG    | KMTIT             | PTTVI 124         |        |              |           |   |
| NTDB      | id | 1188   | NELON      | RS01755     | WP         | 003772458.1 | NKTA         | AAGGGG      | AGGAAAA   | GTQH    | ....      | ASKYV    | KSV    | ..KVTE  | ASPW      | INTA   | ISATEANG | .....             | IPTGL             | DGNT   | IRIFPLVN 139 |           |   |
| NTDB      | id | 1424   | RS         | RS02795     | WP         | 011000517.1 | .....        | VGSSVF      | .....     | T       | ..PTKN    | VANL     | TIAGT  | GTVP    | GQ        | ITV    | TYT      | T                 | .....             | AAGGGT | LALVPTAA 120 |           |   |
| NTDB      | id | 1002   | ACIAD      | RS15100     | WP         | 004923779.1 | ....S....    | TAGSSCV     | GVQE      | ISAS    | NATTN     | VAT..    | ATCG   | ASSAG   | Q         | IIV    | TMDT     | TT                | .....             | KAK    | CANITL       | TPT.. 122 |   |
| NTDB      | id | 164620 | AVR58      | RS09780     | WP         | 016356941.1 | ....A....    | TG...YV     | .....     | SPA     | ATPN      | VQS..    | IAIG.. | ANGV    | IT        | ITY    | TA       | .....             | SAGGGT            | IIV    | MTPTL 110    |           |   |
| NTDB      | id | 1258   | GC085      | RS09745     | WP         | 014844212.1 | ....A....    | TG...YV     | .....     | SPA     | ATPN      | VQS..    | IAIG.. | ANGV    | IT        | ITY    | TA       | .....             | AAGGGT            | IIV    | MTPTL 110    |           |   |
| NTDB      | id | 1274   | LPP        | RS09530     | WP         | 011214168.1 | ....A....    | TG...YV     | .....     | SPA     | ATPN      | VAS..    | IAIG.. | ANGV    | IT        | ITY    | TA       | .....             | AAGGGT            | IIV    | MTPTL 110    |           |   |
| consensus |    |        |            |             |            |             |              | *           |           | *       | *         | *        |        | *       | *         | *      | *        | *                 |                   | *      | *            | *         | * |

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| NTDB id 1184   | GTF74      | RS02335     | WP 000649326.1 | .....ANGLWTCSTT.....VTSEIAPKGCTAGATIN.....                     | 153 |
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| NTDB id 164620 | AVR58      | RS09780     | WP 016356941.1 | .....QANGDVTWCTTGG.....TLLAKYRPASCRP.....                      | 136 |
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| consensus      |            |             |                | .....* * ! * * *.....* * * *.....                              |     |

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