

[illegible]

|           |    |        |            |             |     |             |                        |                    |                 |                         |                           |                    |     |
|-----------|----|--------|------------|-------------|-----|-------------|------------------------|--------------------|-----------------|-------------------------|---------------------------|--------------------|-----|
| NTDB      | id | 1292   | VP         | RS12235     | WP  | 005479693.1 | .AATLAQLGVDVAANDL..GA  | IDS.....ALAG       | CSPT            | LTFTFD...ADSSID         | GGI                       | LTFTRD.....AATGW   | 124 |
| NTDB      | id | 1192   | PAKAF      | RS23870     | WP  | 024947914.1 | ATKKEVPLGVAADANKL..GT  | IAL...K.PDPAD      | GTAD            | ITLTFTMGAGPKNK          | GKI                       | ITLTTRT.....AADGLW | 133 |
| NTDB      | id | 1204   | PSJM300    | 03935       | AFN | 76865.1     | .....GFIGIGASTN.Y..CT  | VTL...I..ATAT      | GS..            | IT.CTTQNGMPDRFN         | GKT                       | ITTIART.....TDGLW  | 125 |
| NTDB      | id | 1197   | PSJM300    | 03940       | AFN | 76866.1     | .....GYIGITDSTS.Y..CD  | VDL...D..TAAD      | GH..            | IE.CTAKGGNAGKDFG        | GKT                       | ITLNRIT.....ADGEW  | 123 |
| NTDB      | id | 1365   | NTHI       | RS01955     | WP  | 011271973.1 | .K.....NGIA.ADITTAKGY  | V.....KSVTTSN      | GA..            | ITVKGD.....GTLA...N     | MEYILQ.....ATGNAATGVTW    | 127                |     |
| NTDB      | id | 1109   | OK783      | RS10670     | WP  | 157147416.1 | .A.....SASTIKGKY       | VQKVEVA.....KGV..  | VTAQMA....ST... | GVNKEIQDK....KLSLWAKRQD | GSVKW                     | 125                |     |
| NTDB      | id | 1191   | AAC28468.1 | 484..945( ) |     |             | .N.....VIFD.SANGLDGKY  | FAPGGVT.VTPDT      | GA..            | INIAFD.....AGANA        | GKMTITTPTVIAA.....SGQISTW | 133                |     |
| NTDB      | id | 1424   | RS         | RS02795     | WP  | 011000517.1 | .....SVF....TPT..KN    | VANLTIAGTGTVP      | GQ..            | ITVYTT....TAAAG         | GKTLALVPTAAGTALPVSSAPS    | GPIMW              | 136 |
| NTDB      | id | 245004 | CIW71      | RS06000     | WP  | 005921364.1 | ..ACVGVG....ATAAT..TN  | MAS...IACTPA.TGN.. | IVVTGD....ATRTK | GTVLTYAPT               | TVGGA.....NSAVGTTW        | 124                |     |
| NTDB      | id | 1002   | ACIAD      | RS15100     | WP  | 004923779.1 | ..SSCVGVQEIS.ASNAT..TN | VAT..ATCGASSAG     | Q..             | IIVTMD....TTKAK         | GANITITLPT.YA.....SGAVTW  | 130                |     |
| NTDB      | id | 1274   | LPP        | RS09530     | WP  | 011214168.1 | .V.....SPAAT..PN       | VAS...IAIGA..NGV.. | ITITY.....TAAAG | GGTIVMTP                | TLQA.....NGDVTW           | 118                |     |
| NTDB      | id | 1258   | GC085      | RS09745     | WP  | 014844212.1 | .V.....SPAAT..PN       | VQS..IAIGA..NGV..  | ITITY.....TAAAG | GGTIVMTP                | TLQA.....NGDVTW           | 118                |     |
| consensus |    |        |            |             |     |             | *                      | !                  | ***             | *                       | ***                       | *                  | !   |

| Accession      | Gene          | Protein        | Sequence                                | Score |
|----------------|---------------|----------------|-----------------------------------------|-------|
| NTDB id 1292   | VP RS12235    | WP 005479693.1 | SCLPT.....APAI.AVDGCS.....              | 139   |
| NTDB id 1192   | PAKAF RS23870 | WP 024947914.1 | KCTSD.....QDEQFIPKGCsk.....             | 150   |
| NTDB id 1204   | PSJM300 03935 | AFN76865.1     | DCTSD.....LDSRYKPKGCL.....              | 141   |
| NTDB id 1197   | PSJM300 03940 | AFN76866.1     | SCAST.....LDAKYKPKCS.....               | 139   |
| NTDB id 1365   | NTHI RS01955  | WP 011271973.1 | TTTCK.....GTDASLFPAFCGSVTQ.             | 149   |
| NTDB id 1109   | OK783 RS10670 | WP 157147416.1 | FCGQPVTRTGDNDDTVADANNAIDTKHLPSTCRDESSAT | 164   |
| NTDB id 1191   | AAC28468.1    | 484..945( )    | TCAPGAAN.....GIETRLRLPTSCQ*.....        | 153   |
| NTDB id 1424   | RS RS02795    | WP 011000517.1 | TCYAQNKAQAA.SSVAPSGTMSLAAKYPAECR.....   | 168   |
| NTDB id 245004 | CIW71 RS06000 | WP 005921364.1 | TCTGS.....GSQSKYYPACERR.....            | 142   |
| NTDB id 1002   | ACIAD RS15100 | WP 004923779.1 | KCTTT.....S.DKKYVPSECRG.....            | 147   |
| NTDB id 1274   | LPP RS09530   | WP 011214168.1 | CTTGG.....TLAKYRPAACRP.....             | 136   |
| NTDB id 1258   | GC085 RS09745 | WP 014844212.1 | TCTGG.....TLAKYRPAACRP.....             | 136   |
| consensus      |               |                | *** ** * * *                            |       |

 non conserved  
 similar  
  $\geq 50\%$  conserved