```
logo
NTDB id 1184 GTF74 RS02335 WP 000649326.1    ...MKAYKNKQQKGFTLIELMIVVAVIGVLAAIAIPQYQNYVKKSAIGVGLANITALKTNIEDYIATEGSFPATTAGTAA   77
NTDB id 1167 A1552VC RS11065 WP 000649326.1  ...MKAYKNKQQKGFTLIELMIVVAVIGVLAAIAIPQYQNYVKKSAIGVGLANITALKTNIEDYIATEGSFPATTAGTAA   77
NTDB id 1160 ABDM36 RS02330 WP 000649326.1   ...MKAYKNKQQKGFTLIELMIVVAVIGVLAAIAIPQYQNYVKKSAIGVGLANITALKTNIEDYIATEGSFPATTAGTAA   77
NTDB id 1038 HON27 RS01510 WP 000993725.1    ........MNAQKGFTLIELMIVVAIIGILAAIAIPQYQNYIAKSQVNSGFSEISSIKIGYENAVNE.GAVPTKLSDV..   69
NTDB id 1192 PAKAF RS23870 WP 024947914.1    ........MKAQKGFTLIELMIVVAIIGILAAIAIPQYQNYVARSEGASALASVNPLKTTVEEALSR.GWSVKSGTGTED   71
NTDB id 1197 PSJM300 03940 AFN76866.1        ......MKAQMQKGFTLIELMIVVAIIGILAAIALPAYQDYTVRSNAAAALAEITPGKIGFEQAINE.GKTPSLTSTDE.   72
NTDB id 1204 PSJM300 03935 AFN76865.1        ....MKPVKSSCRGFSLIELMIVVAIIGILAAIALPAYQNYTVRSTAASALAEITPAKAAFEQAISE.GHTPSLVSSLP.   74
NTDB id 1365 NTHI RS01955 WP 011271973.1     ..MKLTTQQTLKKGFTLIELMIVIAIIAILATIAIPSYQNYTKKAAVSELLQASAPYKADVELCVYSTNETT........   70
NTDB id 1354 HI 0299 AAC21963.1              ..MKLTTLQTLKKGFTLIELMIVIAIIAILATIAIPSYQNYTKKAAVSELLQASAPYKADVELCVYSTNETT........   70
NTDB id 1109 OK783 RS10670 WP 157147416.1    .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGIWPKDNTSAG.   72
NTDB id 1119 NGFG RS11465 WP 017147169.1     .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGKWPENNTSAG.   72
NTDB id 1191 AAC28468.1 484..945( )          ......MLKKVQKGFTLIELMIVIAIIGILAAIALPAYQDYTARAQATEGFKATAGLQTDLGAWRADRGSFPNAAALVAG   74
NTDB id 1274 LPP RS09530 WP 011214168.1      .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAA...   68
NTDB id 1258 GC085 RS09745 WP 014844212.1    .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAA...   68
NTDB id 1424 RS RS02795 WP 011000517.1       MKSMRHLNKRVQKGFTLIELMIVVAIVGILAAIAIPAYQDYTVRARVTEGLSLAAQAKALVSENAANAQSDLSVGSS...   77
NTDB id 669099 PM1 RS25505 WP 009617631.1    ........MNAQKGFTLIELMIVVAIIGILAAIALPAYQDYTVRARVSEGLSLASGVKTTVAENMANDPTTT........   64
NTDB id 1002 ACIAD RS15100 WP 004923779.1    ........MNAQKGFTLIELMIVIAIIGILAAIAIPAYTDYTVRARVSEGLTAASSMKTTVSENILNAGALVAGTPSTAG   72
consensus                                                **!!*!!!!!!!*!****!!**!*!*!* !* ** *****      ** * * *   *  *
```

```
logo
NTDB id 1184 GTF74 RS02335 WP 000649326.1    ........GF....TRLGTVE........DMGDGKIVIAPTASGALGGTIKYTFDAGVVSSSKIQL.............AR   125
NTDB id 1167 A1552VC RS11065 WP 000649326.1  ........GF....TRLGTVE........DMGDGKIVIAPTASGALGGTIKYTFDAGVVSSSKIQL.............AR   125
NTDB id 1160 ABDM36 RS02330 WP 000649326.1   ........GF....TRLGTVE........DMGDGKIVIAPTASGALGGTIKYTFDAGVVSSSKIQL.............AR   125
NTDB id 1038 HON27 RS01510 WP 000993725.1    ........GFTAATSSVCATYSIDA.FTETDGAGKIT.CTLKG............NPKIATKIVEL.............TR   115
NTDB id 1192 PAKAF RS23870 WP 024947914.1    ATKKEVPLGVAADANKLGTIALKP...DPADGTADITLTFTMGG...........AGPKNKGKIITL.............TR   126
NTDB id 1197 PSJM300 03940 AFN76866.1        .....GYIGITDSTS.YCDVDLD....TAADGH..IE.CTAKGG...........NAGKFDGKTITL.............NR   117
NTDB id 1204 PSJM300 03935 AFN76865.1        .....GFIGIGASTN.YCTVTLI....ATATGS..IT.CTTQNG...........MPDRFNGKTITI.............AR   119
NTDB id 1365 NTHI RS01955 WP 011271973.1     .NCTGGKNGIAA.DITTAKGYVKS....VTTSNGAITVKGDGT....................LANMEY....ILQATGN   120
NTDB id 1354 HI 0299 AAC21963.1              .SCTGGKNGIAA.DIKTAKGYVAS....VITQSGGITVKGNGT....................LANMEY....ILQAKGN   120
NTDB id 1109 OK783 RS10670 WP 157147416.1    .......VA.SA..STIKGKYVQKV....EVAKGVVTAQMASTG...........VNKEIQDKKLSL...........WAKR   118
NTDB id 1119 NGFG RS11465 WP 017147169.1     .......VA.SP.PTDIKGKYVKEV....EVKNGVVTATMLSSG...........VNNEIKGKKLSL...........WGRR   119
NTDB id 1191 AAC28468.1 484..945( )          N.....VIF.DS.ANGLDGKYFAPGGVTVTPDTGAINIAFDAG...............ANAGKTMTITPTV.......IAA   126
NTDB id 1274 LPP RS09530 WP 011214168.1      ...TGY....VS.PAATPNVASIA.....IGANGVITITYTAA................AGGGTIV.........MTPTLQ   111
NTDB id 1258 GC085 RS09745 WP 014844212.1    ...TGY....VS.PAATPNVQSIA.....IGANGVITITYTAA................AGGGTII.........MTPTLQ   111
NTDB id 1424 RS RS02795 WP 011000517.1       .......VF.TP.TKNVANLTIAG...T.GTVPGQITVTYTTA................AGGGTLALVPTAAGTALPVSSA   129
NTDB id 669099 PM1 RS25505 WP 009617631.1    TRCTGANTT.AG.GH....VTSIG...C.TDTTGKIDITMDAT................AKSVKLA.........LTPTQV   110
NTDB id 1002 ACIAD RS15100 WP 004923779.1    SSCVGVQEI.SA.SNATTNVATAT...CGASSAGQIIVTMDTT...............KAKGANIT.........LTPT.Y   123
consensus                                          *          *           * * ***                          * *
```

<0

```
logo
                                                  D.ANGLWTCSTT..................VTSEIAPKGCTAGATIN......   153
NTDB id 1184 GTF74 RS02335 WP 000649326.1         D.ANGLWTCSTT..................VTSEIAPKGCTAGATIN......   153
NTDB id 1167 A1552VC RS11065 WP 000649326.1       D.ANGLWTCSTT..................VTSEIAPKGCTAGATIN......   153
NTDB id 1160 ABDM36 RS02330 WP 000649326.1        D.ANGLWTCSTT..................VTSEIAPKGCTAGATIN......   153
NTDB id 1038 HON27 RS01510 WP 000993725.1         S.TDGAWTCVSD..................VPTEFLPKGCTAGTPTEGAITSL   149
NTDB id 1192 PAKAF RS23870 WP 024947914.1         TAADGLWKCTSD..................QDEQFIPKGCSK...........   150
NTDB id 1197 PSJM300 03940 AFN76866.1             T.ADGEWSCAST..................LDAKYKPGKCS............   139
NTDB id 1204 PSJM300 03935 AFN76865.1             T.TDGLWDCTSD..................LDSRYKPGKCL............   141
NTDB id 1365 NTHI RS01955 WP 011271973.1          AATGVTWTTTCKG.................TDASLFPANFCGSVTQ.......   149
NTDB id 1354 HI 0299 AAC21963.1                   AAAGVTWTTTCKG.................TDASLFPANFCGSVTK.......   149
NTDB id 1109 OK783 RS10670 WP 157147416.1         QDGSVKWFCGQPVTRTGDNDDTVADANNAIDTKHLPSTCRDESSAT......   164
NTDB id 1119 NGFG RS11465 WP 017147169.1          ENGSVKWFCGQPVTRADDDTVADAKDGKEIDTKHLPSTCRDKASDAK.....   166
NTDB id 1191 AAC28468.1 484..945( )               SGQISTWTCAPGAANG..............IETRRLPTSCQ*...........   153
NTDB id 1274 LPP RS09530 WP 011214168.1           ANGDVTWTCTGGT.................LLAKYRPASCRP...........   136
NTDB id 1258 GC085 RS09745 WP 014844212.1         ANGDVTWTCTGGT.................LLAKYRPASCRP...........   136
NTDB id 1424 RS RS02795 WP 011000517.1            PSGPIMWTCYAQNKAQ.AASSVAPSGTMSLAAKYAPAECR............   168
NTDB id 669099 PM1 RS25505 WP 009617631.1         SGGPVTWKCTTS..................TDKKYVPAECRN...........   134
NTDB id 1002 ACIAD RS15100 WP 004923779.1         ASGAVTWKCTTT..................SDKKYVPSECRG...........   147
consensus                                           *   !***                     **  *  !   *
```

X non conserved

X similar

X ≥ 50% conserved