

| Accession                                   | Sequence                                                                                       | Length |
|---------------------------------------------|------------------------------------------------------------------------------------------------|--------|
| NTDB id 1186 GTF74 RS01320 WP 000788426.1   | ..MKNGLKT..YVAQTWLTLWVGLALCASSMVFSAESATANQLENIDFRVNKEKA <sup>1</sup> AVLIVELASPSAVVDVQKVQEGLSI | 76     |
| NTDB id 1175 A1552VC RS12105 WP 000788426.1 | ..MKNGLKT..YVAQTWLTLWVGLALCASSMVFSAESATANQLENIDFRVNKEKA <sup>2</sup> AVLIVELASPSAVVDVQKVQEGLSI | 76     |
| NTDB id 1408 DSB67 RS13980 WP 010643500.1   | MKMRHGLTLTPRKLTGLFSLWFSLLAP...FVAAEEVQSNLSKSIDFRTNKDKDAVIVVELVSPAAIVDIKRVQEGLSI                | 77     |
| NTDB id 1381 A4U84 RS02010 WP 021113424.1   | .....                                                                                          | 0      |
| NTDB id 180842 A4214 RS02075 WP 015702713.1 | .....                                                                                          | 0      |
| NTDB id 1347 HI 0435 AAC22094.1             | .....                                                                                          | 0      |
| NTDB id 1373 NTHI RS02645 WP 011272046.1    | .....                                                                                          | 0      |
| consensus                                   |                                                                                                |        |

|                |         |         |            |                                         |                                                                                  |     |
|----------------|---------|---------|------------|-----------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1186   | GTF74   | RS01320 | WP         | 000788426.1                             | ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISKLKADEKPKPKSVLEKEG | 156 |
| NTDB id 1175   | A1552VC | RS12105 | WP         | 000788426.1                             | ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISKLKADEKPKPKSVLEKEG | 156 |
| NTDB id 1408   | DSB67   | RS13980 | WP         | 010643500.1                             | DLLNTSVKDDQLYLLDVKDFSTVVSVEVFRDTSTTRLVAYIDEDYSHDYRLTGRYLEVKVGKILANEKAPDKSILDKEG  | 157 |
| NTDB id 1381   | A4U84   | RS02010 | WP         | 021113424.1                             | .....MRYLFL.....F.....FAIFPVLAN                                                  | 17  |
| NTDB id 180842 | A4214   | RS02075 | WP         | 015702713.1                             | .....MWRAFRKIS.FVYFLCGVAY.....VGSSQAQDA                                          | 28  |
| NTDB id 1347   | HI      | 0435    | AAC22094.1 | .....MKKYFLKCGYFLVCFCLPLI.....VFANPKTDN | 29                                                                               |     |
| NTDB id 1373   | NTHI    | RS02645 | WP         | 011272046.1                             | .....MKKYFLKCGYFLVCFCLPLI.....VFANPKTDN                                          | 29  |
| consensus      |         |         |            |                                         | * * * * *                                                                        |     |

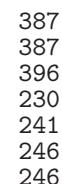
|                |                                |                                                                                    |     |
|----------------|--------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1186   | GTF74 RS01320 WP 000788426.1   | KLISINFDQDIPVRNVQLLIADYNGFNLVVSDSVVGNLTLRLDGVPWQQVLDTILQVKGLDKRVDGNVILIAPKEELDRE   | 236 |
| NTDB id 1175   | A1552VC RS12105 WP 000788426.1 | KLISINFDQDIPVRNVQLLIADYNGFNLVVSDSVVGNLTLRLDGVPWQQVLDTILQVKGLDKRVDGNVILIAPKEELDRE   | 236 |
| NTDB id 1408   | DSB67 RS13980 WP 010643500.1   | KLISINFDQDIPVRNVQLLIADYNGFNLVVSDSVVEGNTLRLDGVPWQQVLDTILQVKGLDKRVDGNVILVAPKDELDRE   | 237 |
| NTDB id 1381   | A4U84 RS02010 WP 021113424.1   | QQLSISRNPAPTAEIISYLAEETGKNNITISDEIKDTKNFRVEKSHFDEILNSLIKTHQLNLLKKENGIIYYIHQAQH.... | 93  |
| NTDB id 180842 | A4214 RS02075 WP 015702713.1   | EHFYLRLLKGAPIIVEMLQYLALQHQHDLIDDHLEGTLSLQMCKTTTFEKCLKSIAARMKQLELHQEGKSYYLTSPSG.... | 103 |
| NTDB id 1347   | HI 0435 AAC22094.1             | ERFFIRLSGAPLAQTLEQLAFQGDVNLVIGDILENKISLKLNNIDMPRLLKIIAKSKHLTLNKKDDGIYYLNGSQSG...   | 105 |
| NTDB id 1373   | NTHI RS02645 WP 011272046.1    | ECFFIRLSGAPLAQTLEQLAFQGDVNLVMGERLEGNISLKLNNIDMPRLLKIIAKSKHLTLNKKDDGVYYLNGSQSG...   | 105 |
| consensus      |                                | *****!*****!*****!*****!                                                           | *   |

[illegible]

```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 180842 A4214 RS02075 WP 015702713.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

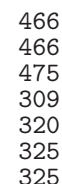
```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 180842 A4214 RS02075 WP 015702713.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

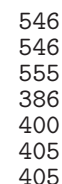
```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 180842 A4214 RS02075 WP 015702713.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

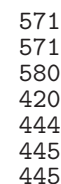
```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 180842 A4214 RS02075 WP 015702713.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

```



-  non conserved
-  similar
-  >50% conserved