

| 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 180797 A4201 RS02105 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   | DLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTTRLVAYIDEDYSHDYRLTGRYLEVKVGKILANEKAPDKSILDKEG | 157 |
| NTDB id 1381   | A4U84 RS02010 WP 021113424.1   | .....MRYLFL.....F.....FAIFPVLAN                                                  | 17  |
| NTDB id 180797 | A4201 RS02105 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      |                                | * * * * *                                                                        |     |

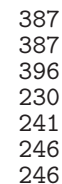
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|----------------|---------|---------|------------|-------------|------------------------------------------------------------------------------------|-----------------------------------------|-------|-------------------------------|-----|--|
| NTDB id 1186   | GTF74   | RS01320 | WP         | 000788426.1 | KLISINFDIPVRNVQLIADYNGFNLVVS                                                       | SVVGNLTLRLDGPVWQQVLDIILQVKGLDKRVDGNVIL  | IAPKE | ELDLRE                        | 236 |  |
| NTDB id 1175   | A1552VC | RS12105 | WP         | 000788426.1 | KLISINFDIPVRNVQLIADYNGFNLVVS                                                       | SVVGNLTLRLDGPVWQQVLDIILQVKGLDKRVDGNVIL  | IAPKE | ELDLRE                        | 236 |  |
| NTDB id 1408   | DSB67   | RS13980 | WP         | 010643500.1 | KLISINFDIPVRNVQLIADYNGFNLVVS                                                       | SVVEGNLTLRLDGPVWQQVLDIILQVKGLDKRVDGNVIL | VAPKD | ELDLRE                        | 237 |  |
| NTDB id 1381   | A4U84   | RS02010 | WP         | 021113424.1 | QQISLSIRNAPTAEIISYLAETGKNITISDEIKDTKNFRVEKSHFDEILNSLIKTHQLNLKKENG                  | IYYIHQAQEH....                          |       |                               | 93  |  |
| NTDB id 180797 | A4201   | RS02105 | WP         | 015702713.1 | EHFYRLRLKCAPIVEMLQYLALQHQDILLIDHLEGTLSLQMKKTTFEKCLQSIARMKQLELHQEGKSYYLTSPSG....    |                                         |       |                               | 103 |  |
| NTDB id 1347   | HI      | 0435    | AAC22094.1 |             | ERFFIRLSQAPLAQTLEQLAFQGDVNLVIGDILENKISLKLNNIDMPRLLLQIIAKSKHLTLNKKDDGIYYLNGSQSG.... |                                         |       |                               | 105 |  |
| NTDB id 1373   | NTHI    | RS02645 | WP         | 011272046.1 | ECFFIRLSQAPLAQTLEQLAFQGDVNLVIGDILENKISLKLNNIDMPRLLLQIIAKSKHLTLNKKDDGIYYLNGSQSG.... |                                         |       |                               | 105 |  |
| consensus      |         |         |            |             | *** * * * ! * * * * * ! * * *                                                      | *****                                   | ***** | * * ! * * * * ! * * * * * * * |     |  |

|                |         |         |            |             |                                |                      |                  |                 |          |                  |        |       |             |       |            |         |         |     |
|----------------|---------|---------|------------|-------------|--------------------------------|----------------------|------------------|-----------------|----------|------------------|--------|-------|-------------|-------|------------|---------|---------|-----|
| NTDB id 1186   | GTF74   | RS01320 | WP         | 000788426.1 | KQALEKARLAEEIGDLKSEIKINFAKASDI | AAMIGGEGNVNMLSERGSIS | IDERTNSLLIRELPDN | I               | AV       | IRE              | IESLDI | 316   |             |       |            |         |         |     |
| NTDB id 1175   | A1552VC | RS12105 | WP         | 000788426.1 | KQALEKARLAEEIGDLKSEIKINFAKASDI | AAMIGGEGNVNMLSERGSIS | IDERTNSLLIRELPDN | I               | AV       | IRE              | IESLDI | 316   |             |       |            |         |         |     |
| NTDB id 1408   | DSB67   | RS13980 | WP         | 010643500.1 | KQQLEKQKLEKEIGELSSSEIKVNF      | AKASDIAEMINGEGNISM   | LD               | RG              | SMT      | IDERTNSLLIRELPEN | IEV    | IRE   | IESLDI      | 317   |            |         |         |     |
| NTDB id 1381   | A4U84   | RS02010 | WP         | 021113424.1 | .KQHTTAQLVNALPKLITKT           | IKLHYSKASEVIESLT     | .KGQGNLLES       | GYLH            | FFDR     | SNS              | IIVK   | DSAAS | VKNFTQLIESL | DK    | 171        |         |         |     |
| NTDB id 180797 | A4201   | RS02105 | WP         | 015702713.1 | ...VAANDTHHPTS                 | LMTSSIKLHFAKA        | AEVVKSLT         | .SGQGSLLSV      | GGSL     | SF               | DERTN  | LLLIQ | DEPQS       | IQR   | IKALVAEMDK | 178     |         |     |
| NTDB id 1347   | HI      | 0435    | AAC22094.1 | .KQQVAGNLT  | TNEPHLV                        | SHTV                 | KLHFAKASELMKSLT  | .TGSGLLS        | PAGS     | ITFDD            | RNSLL  | VIQ   | DEPRS       | VQN   | IKK        | LIAEMDK | 183     |     |
| NTDB id 1373   | NTHI    | RS02645 | WP         | 011272046.1 | .KQQVAGNLT                     | TNEPHLV              | SHTV             | KLHFAKASELMKSLT | .TGSGLLS | SAGS             | ITFDD  | RNSLL | VIQ         | DEPRF | VQN        | IKK     | LIAEMDK | 183 |
| consensus      |         |         |            |             | *                              | *****                | *                | !*              | *****    | !*               | *****  | !*    | *****       | !*    | *****      | !*      | *****   | !*  |

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NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

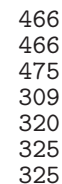
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consensus

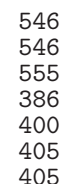
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consensus

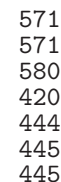
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NTDB id 1175 A1552VC RS12105 WP 000788426.1
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NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
consensus

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- X non conserved
- X similar
- X >50% conserved