

| 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 339331 ER009 RS00405 WP 128786784.1 | .....                                                                                          | 0      |
| NTDB id 1347 HI 0435 AAC22094.1             | .....                                                                                          | 0      |
| NTDB id 1373 NTHI RS02645 WP 011272046.1    | .....                                                                                          | 0      |
| consensus                                   |                                                                                                |        |

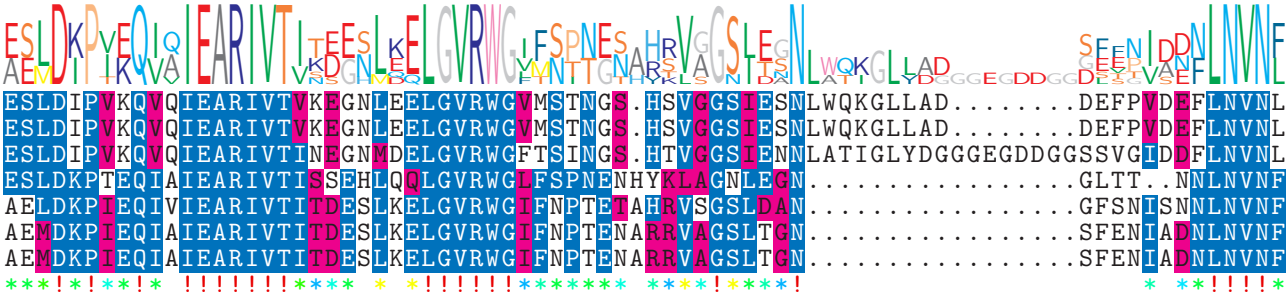
|                |                                |                                                                                  |     |
|----------------|--------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1186   | GTF74 RS01320 WP 000788426.1   | ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKG.KYLEVVISKLKADEKPKPKSVLEKE | 155 |
| NTDB id 1175   | A1552VC RS12105 WP 000788426.1 | ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKG.KYLEVVISKLKADEKPKPKSVLEKE | 155 |
| NTDB id 1408   | DSB67 RS13980 WP 010643500.1   | DLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTTRLVAYIDEDYSHDYRLTG.RYLEVKVGKLIKANEKAPDKSILDK | 156 |
| NTDB id 1381   | A4U84 RS02010 WP 021113424.1   | .....MRYIFLLFF.....ATFPVLA                                                       | 16  |
| NTDB id 339331 | ER009 RS00405 WP 128786784.1   | .....MIKQKIKTKCGQFLMCFLILWTT.....YS..SAE                                         | 28  |
| NTDB id 1347   | HI 0435 AAC22094.1             | .....MKKYFLKCGYFLVCFCLPLIV.....FANPKTD                                           | 28  |
| NTDB id 1373   | NTHI RS02645 WP 011272046.1    | .....MKKYFLKCGYFLVCFCLPLIV.....FANPKTD                                           | 28  |
| consensus      |                                | * * *                                                                            | *   |

[illegible]

|                  |                                |                                                                                   |                                                                                 |
|------------------|--------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| NTDB id 1186     | GTF74 RS01320 WP 000788426.1   | EKQAL....EKARLAEEIGDLKSEIKINFAKASDIAMIGGEGNVNMLSERGSISIDERTNSLLIRELPDNIAVIREI     | 311                                                                             |
| NTDB id 1175     | A1552VC RS12105 WP 000788426.1 | EKQAL....EKARLAEEIGDLKSEIKINFAKASDIAMIGGEGNVNMLSERGSISIDERTNSLLIRELPDNIAVIREI     | 311                                                                             |
| NTDB id 1408     | DSB67 RS13980 WP 010643500.1   | EKKQL....EKKLEKEIGDLSEIKINFAKASDIAEMINGENISMRLDRSGMTIDERTNSLLIRELPDENIEVIREI      | 312                                                                             |
| NTDB id 1381     | A4U84 RS02010 WP 021113424.1   | T.....TAQLVNALPKLITTKIKLHYSKASEVIESLT.KQGNGNLSESGLYLFHDDRNSNIIVKDSAASVKNFQTLL     | 166                                                                             |
| NTDB id 339331   | ER009 RS00405 WP 128786784.1   | AEKMTEPMAISGESLPSETPLVSTTVKLHFPAKASDVMSLSLT.TGSGSLLSPSGTITFDDRSNVLLIQDDARSINKIKLI | 187                                                                             |
| NTDB id 1347     | HI 0435 AAC22094.1             | .....GQVAGNLTITNEPHLVSHTVKLHFPAKASELMKSLT.TGSGSLLSPAGSITFDDRSNLLVIQDEPRSVQNIKLI   | 178                                                                             |
| NTDB id 1373     | NTHI RS02645 WP 011272046.1    | .....GQVAGNLTITNEPHLVSHTVKLHFPAKASELMKSLT.TGSGSLLSPAGSITFDDRSNLLVIQDEPRFVQNIKLI   | 178                                                                             |
| <b>consensus</b> |                                | * * * * *                                                                         | ! * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! |

logo

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 339331 ER009 RS00405 WP 128786784.1  
NTDB id 1347 HI 0435 AAC22094.1  
NTDB id 1373 NTHI RS02645 WP 011272046.1  
consensus



382  
382  
391  
227  
250  
241  
241

logo

NTDB id 1186 GTF74 RS01320 WP 000788426.1  
NTDB id 1175 A1552VC RS12105 WP 000788426.1  
NTDB id 1408 DSB67 RS13980 WP 010643500.1  
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NTDB id 339331 ER009 RS00405 WP 128786784.1  
NTDB id 1347 HI 0435 AAC22094.1  
NTDB id 1373 NTHI RS02645 WP 011272046.1  
consensus



461  
461  
470  
304  
329  
320  
320

logo

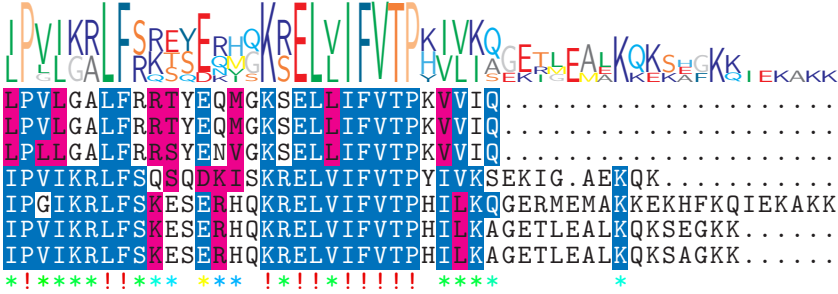
NTDB id 1186 GTF74 RS01320 WP 000788426.1  
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NTDB id 1347 HI 0435 AAC22094.1  
NTDB id 1373 NTHI RS02645 WP 011272046.1  
consensus



540  
540  
549  
380  
409  
399  
399

logo

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NTDB id 1347 HI 0435 AAC22094.1  
NTDB id 1373 NTHI RS02645 WP 011272046.1  
consensus



571  
571  
580  
420  
461  
445  
445

☒ non conserved  
☒ similar  
☒ ≥ 50% conserved