

logo

|                                              |                                                                                     |    |
|----------------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id 1384 A4U84 RS08525 WP 010787006.1    | MS.....QYTICQ.....QTERIFDI SP SRW                                                   | 22 |
| NTDB id 988887 AAG992 RS06510 WP 014391364.1 | .....MFHENPLCTVST.....MTGEVFEIQQALW                                                 | 25 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....MTSYALLHTQRVTA.....QNGEIFTTSPDLW                                               | 27 |
| NTDB id 1355 HI 0298 AAC21962.1              | .....MTSYALLHTQRVTA.....KNGEVFTTSPDLW                                               | 27 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....MLTNLVAIDRQAELISATQEQAVVTQVSASGTSVPEADLELSIFHAQETEQLSHIFGLPETDLSRYDYANL        | 72 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....MHSNLSTILRQKGLITFSQEESSLIEQVKASGISMPEALLSSGFFTSSEIAEHLSSIFGLSQPELSQYIYASL      | 72 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....MLTNLSTVLRQAGILITFSQEESSLIEQVKASGISMPEALLSSGFFQSHEITEHLSSVFGLSCTSLNQYIYASL     | 72 |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAQNFQVPMLDINCIDVGTI     | 80 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | MSALHTSPKFTGFFRRLLVEEKHVSAAATMQTALDAAKRAKQDVTAYLIEEVHLSPSLLAETISABFFAEPYFDLDVYDTSQI | 80 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDVPYLLDNFSSPLTAEIISLEFGEPLLDLGVFDPALF       | 80 |
| consensus                                    | * * * * *                                                                           |    |

logo

|                                              |                                                                                     |     |
|----------------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 1384 A4U84 RS08525 WP 010787006.1    | QKNCEEKQLLLRYLAVPVQETEHKLLAVDDENNLTAEIFAFMTHKQIEPVVIAADELKYLLMAL SPEQQPIYEESE..     | 100 |
| NTDB id 988887 AAG992 RS06510 WP 014391364.1 | QKNQQQQRFLRLRYFALPLQEDEKQLWLGVDLSANLSACDAFSFLT NKHLEPVLSTNELKRALQQLSPPKIQVEENIP..   | 103 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | ERNQQQQSLRLRYFALPLKEENNRLWLGVDLSNLSACETIAFITGKPVPEPILLESSQLKELLQQLTPHQMQVEEVK..     | 105 |
| NTDB id 1355 HI 0298 AAC21962.1              | ERNQQQQSLRLRYFALPLKEENNRLWLGVDLSNLSACETIAFITGKPVPEPILLESSQLKELLQQLTPNQMQVEEVK..     | 105 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | CQQLGLRELI TRYDALPIAKQGNLLLAVSDPTLLQAEFEFRFATGLQVELALADHRAALQAAIRRLYGRSTQGAANQGK..  | 151 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | CQQLGLRELI TRHNALPLHRTPTSTLLAVADPTNQQAEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHKSGLK..   | 151 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | CQTGLGLRDLITRHNALPLNRTSSTLLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAAIRRLYGRSLGQEKSGLK.. | 151 |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | PVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHALVVEIDKLSALIDNLLTAKESQGLSEYVE   | 160 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | PKDLVDQKLI LKHRILPLIQRGQILYVATSNPSNIEAIDAIRFN SKLLVEPVIVBHHKLEKVLGQHAEESSFDNDE..    | 158 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | LKDKIDEKLI QKYRIMPLVHRGHVLYVATSNPTNIEAMD AIRFN SKLKVPEIIVEHDKLERLLSEHVEETHFNFDTE..  | 158 |
| consensus                                    | *** * * * * ! * * * * * * * * * * ! * * * * * * * * * * ! * * * * * * * * * *       |     |

logo

|                                              |                                                                                       |     |
|----------------------------------------------|---------------------------------------------------------------------------------------|-----|
| NTDB id 1384 A4U84 RS08525 WP 010787006.1    | .....LAFVE.QEQQLNLNDPTIQLLDNLFKFCIAQNASDIHIEPRKQKLIIRLRIDGVLHLYKSLSIQL                | 165 |
| NTDB id 988887 AAG992 RS06510 WP 014391364.1 | .....TVYQVAQLSDSATDEPLIQLLDQVFERALQLQASDIHFEPQHSLQVREIRIDGVLQVQPHFSGLI                | 169 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | .....FYQHQETHFEQEDDEPVIIRLLNQIFESALQKNASDIHLETLADQFQVRFIRIDGVLQPQPLISKIF              | 170 |
| NTDB id 1355 HI 0298 AAC21962.1              | .....FYQHQETHFEQEDDEPVIIRLLNQIFESALQKNASDIHLETLADQFQVRFIRIDGVLQPQPLISKIF              | 170 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | ..EISQDEITANLVKVSDDLEQSIEDLSQDDSPVSRFINQVILLDAVRKGASDIHFEPYENQYRIRIRCDGILVETQQPASHL   | 230 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | ..EINQEELASLV DVGADIEDNIEDLSQDESPVSRFINQVILLDAVRKGASDIHFEPYBKM YRVRLRCDGILVETQQPPNHL  | 230 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | ..EINQDELAGLV DIGEDIENIEDLSQDESPVSRFINQVILLDAVRKGASDIHFEPYENMYRVRLRCDGILVETQQPPSHL    | 230 |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | DSGDLEGLEISAD.DEDQDITATSVTDAPIVKVFVNKILLDAIRQGASDIHFEPYBRYRIRYRQDGLHEVATPPASL         | 239 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | ..EFD...LDVNL DGP T AQEDDEEAPQGDEAPIVKYINKLLDAIRMGASDIHFEPYBKS YRVRYRVDGVL RQIANPPLQL | 234 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | ..ELD...LDVEVDPHTTDDDDDEDDKLKDEAPIVKYINKLLDAIRMSASDIHFEPYBKS YRVRYRVDGVLRLIATPPLQL    | 234 |
| consensus                                    | * * * * * * * * * * ! * * * * * * * * * * ! ! ! * * * * * * * * * * ! * * * *         |     |

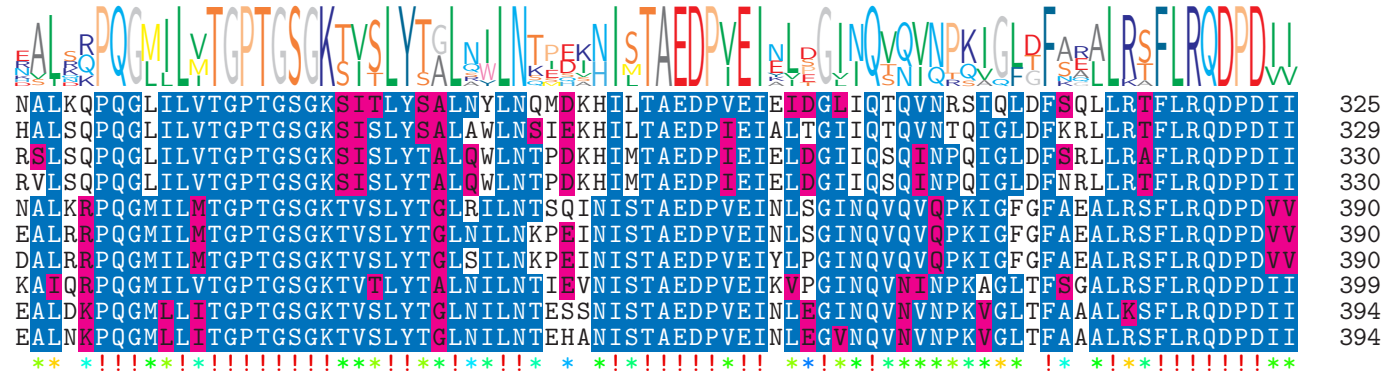
```

NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 988887 AAG992 RS06510 WP 014391364.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



```
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 988887 AAG992 RS06510 WP 014391364.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
```



```

NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 988887 AAG992 RS06510 WP 014391364.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



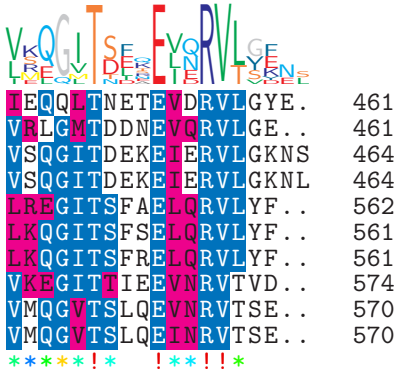
logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1  
NTDB id 988887 AAG992 RS06510 WP 014391364.1  
NTDB id 1366 NTHI RS01950 WP 011271972.1  
NTDB id 1355 HI 0298 AAC21962.1  
NTDB id 1168 A1552VC RS11070 WP 000957200.1  
NTDB id 1293 VP RS12240 WP 005479695.1  
NTDB id 1401 DSB67 RS12665 WP 010643259.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1  
NTDB id 988887 AAG992 RS06510 WP 014391364.1  
NTDB id 1366 NTHI RS01950 WP 011271972.1  
NTDB id 1355 HI 0298 AAC21962.1  
NTDB id 1168 A1552VC RS11070 WP 000957200.1  
NTDB id 1293 VP RS12240 WP 005479695.1  
NTDB id 1401 DSB67 RS12665 WP 010643259.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



☐ non conserved  
☒ similar  
☒ ≥ 50% conserved