

logo

|              |                                |                                                                                  |    |
|--------------|--------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK | 80 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | .....                                                                            | 0  |
| NTDB id 1355 | HI 0298 AAC21962.1             | .....                                                                            | 0  |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | .....                                                                            | 0  |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | .....                                                                            | 0  |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....                                                                            | 0  |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | .....                                                                            | 0  |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | .....                                                                            | 0  |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | .....                                                                            | 0  |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | .....                                                                            | 0  |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | .....                                                                            | 0  |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0  |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0  |
| consensus    |                                |                                                                                  |    |

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|--------------|--------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 160 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | .....                                                                            | 0   |
| NTDB id 1355 | HI 0298 AAC21962.1             | .....                                                                            | 0   |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | .....                                                                            | 0   |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | .....                                                                            | 0   |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....                                                                            | 0   |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | .....                                                                            | 0   |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | .....                                                                            | 0   |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | .....                                                                            | 0   |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | .....                                                                            | 0   |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | .....                                                                            | 0   |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0   |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0   |
| consensus    |                                |                                                                                  |     |

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|--------------|--------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVDPDPSAALLL | 240 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | .....                                                                           | 0   |
| NTDB id 1355 | HI 0298 AAC21962.1             | .....                                                                           | 0   |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | .....                                                                           | 0   |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | .....                                                                           | 0   |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....                                                                           | 0   |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | .....                                                                           | 0   |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | .....                                                                           | 0   |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | .....                                                                           | 0   |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | .....                                                                           | 0   |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | .....                                                                           | 0   |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | .....                                                                           | 0   |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | .....                                                                           | 0   |
| consensus    |                                |                                                                                 |     |

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|--------------|--------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | LRSDALRYGAVPIGFQNGEVEVLSDPRIKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL | 320 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | .....                                                                             | 0   |
| NTDB id 1355 | HI 0298 AAC21962.1             | .....                                                                             | 0   |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | .....                                                                             | 0   |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | .....                                                                             | 0   |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....                                                                             | 0   |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | .....                                                                             | 0   |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | .....                                                                             | 0   |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | .....                                                                             | 0   |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | .....                                                                             | 0   |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | .....                                                                             | 0   |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | .....                                                                             | 0   |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | .....                                                                             | 0   |
| consensus    |                                |                                                                                   |     |

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|--------------|--------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | KEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQSGKLRPEALAQAVATQLGYPYVDPEEDPP | 400 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | .....MTSY....ALLHTQRVTAQNGEIFTI.....SP                                           | 24  |
| NTDB id 1355 | HI 0298 AAC21962.1             | .....MTSY....ALLHTQRVTAKNGEVFTI.....SP                                           | 24  |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | .....MSQY....T....ICEQQTERIFDI.....SP                                            | 19  |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | .....MQY....S....VCDMNSQQVFDI.....SE                                             | 18  |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....MNIPQL.....                                                                 | 6   |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | .....MLTNLVAI LRQAELISATQEAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDY       | 69  |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | .....MLTNLSTV LRQAGILTFSQEESSLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQY       | 69  |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | .....MHSNLSLTLRQKGLLTFSQEESSLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQY        | 69  |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | .....MSVGLLRILVQNVVTVVEQAEHYY.NESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPR       | 68  |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFQVPM         | 77  |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPL        | 77  |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | ...MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPY         | 77  |
| consensus    |                                |                                                                                  |     |

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|--------------|--------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1028 | TT RS08215 WP 011173991.1      | DPGAPLLLPEDLCRRYGVFPHRLEGNRLVLLMKDPRNIALDDVRLALKRKGLNVEVAPAVATEAAITKLTIERFYGKAEL  | 480 |
| NTDB id 1366 | NTHI RS01950 WP 011271972.1    | DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPHQM     | 99  |
| NTDB id 1355 | HI 0298 AAC21962.1             | DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPNQ      | 99  |
| NTDB id 1384 | A4U84 RS08525 WP 010787006.1   | SRWQKNCEEKQLILRYLAVPVQETEHKLWLAVDENNLTACEIFAFMTHK....QIEPVVIASDELKYLLNALSPEQ      | 94  |
| NTDB id 1468 | ASU2 RS05090 WP 014991734.1    | SLWQKNCDEKHILLRYLAIPIQENDDTLWLAIDDMNNLSACEIFAFIAHK....TIEPVLISSDELKYLLNQLSPEQ     | 93  |
| NTDB id 1436 | BW25113 RS00530 WP 001025145.1 | .....TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....           | 63  |
| NTDB id 1168 | A1552VC RS11070 WP 000957200.1 | ANLCQQLGLRELITRYDALPIAKQGNLILLAVSDPTLLQAEFEFRFATGL....QVELALADHRAALQAATRRLYGR     | 144 |
| NTDB id 1401 | DSB67 RS12665 WP 010643259.1   | ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRATGL....QVELVLADFRELTAATRRLYGR       | 144 |
| NTDB id 1293 | VP RS12240 WP 005479695.1      | ASLCQQLGLRELITRHNALPLHRTPTSTLLAVADPTNQQAEDDFRATGL....QVELVLADFRELSTAIRRLYGR       | 144 |
| NTDB id 1110 | NGFG RS09235 WP 003689817.1    | HRVLMGVLTEEQMVVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGI....AVELVIVEDDQLAGLLDWV        | 143 |
| NTDB id 1251 | GCO85 RS07725 WP 011946523.1   | GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPSKQASLMKEIQFHTGL....NTHAIVVETDKLSALIDNLTAKES   | 152 |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1   | ALFLDKDIDEKLIQKIRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKL....KVEPIIVETHDKLIERLLSEHFVEETH | 152 |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1    | SQIPKDLVDQKLLIKHRIPLLIQRGQILYVATSNPSNIEAIDAIRFNSKL....LVEPVIVEHHKLEKVLGQHFAEES    | 152 |
| consensus    |                                |                                                                                   |     |

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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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consensus

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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
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NTDB id 1384 A4U8A RS08525 WP 010787006.1
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NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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consensus

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NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 AU084 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

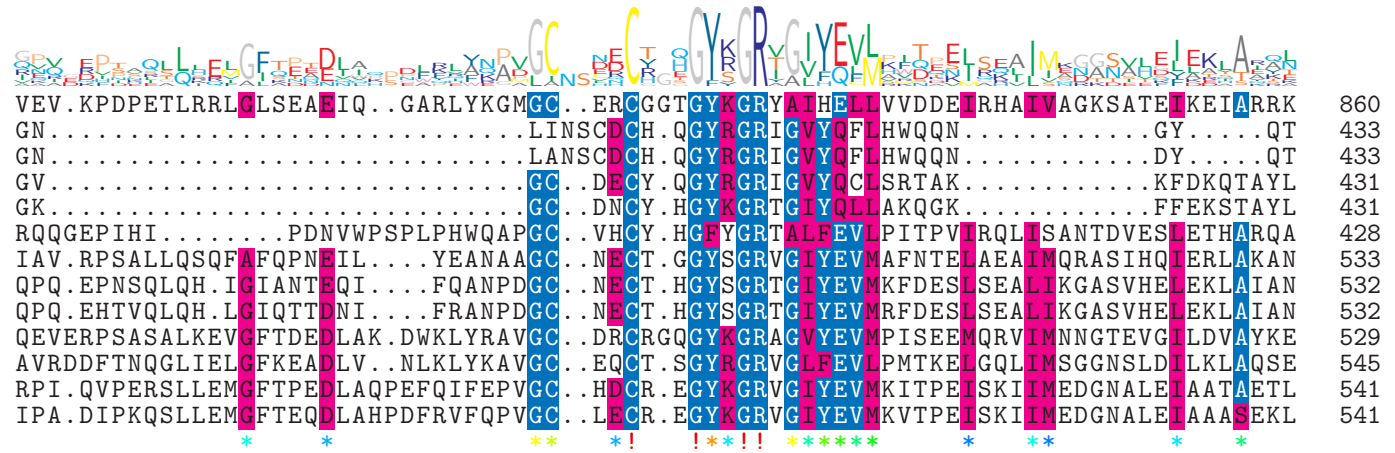
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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 AU084 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
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NTDB id 1168 A1552VC RS11070 WP 000957200.1
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

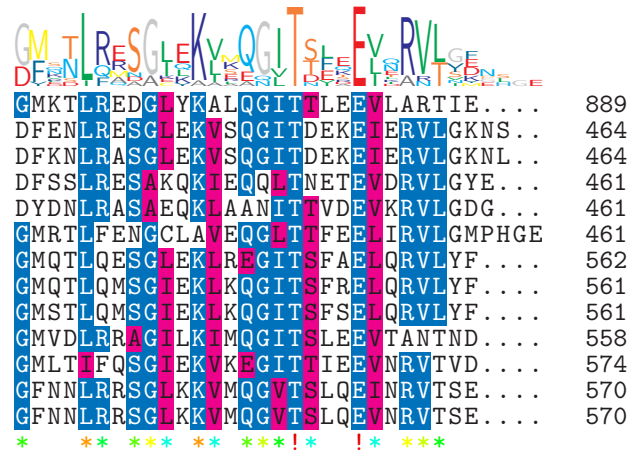
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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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 non conserved  
 similar  
  $\geq 50\%$  conserved