

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 60310 MY015 RS19585 WP 001025155.1  | .....                                                                            | 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 GC085 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      | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 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 60310 MY015 RS19585 WP 001025155.1  | .....                                                                           | 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 GC085 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      | EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL | 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 60310 MY015 RS19585 WP 001025155.1  | .....                                                                           | 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 GC085 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      | LRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL | 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 60310 MY015 RS19585 WP 001025155.1  | .....                                                                              | 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 GC085 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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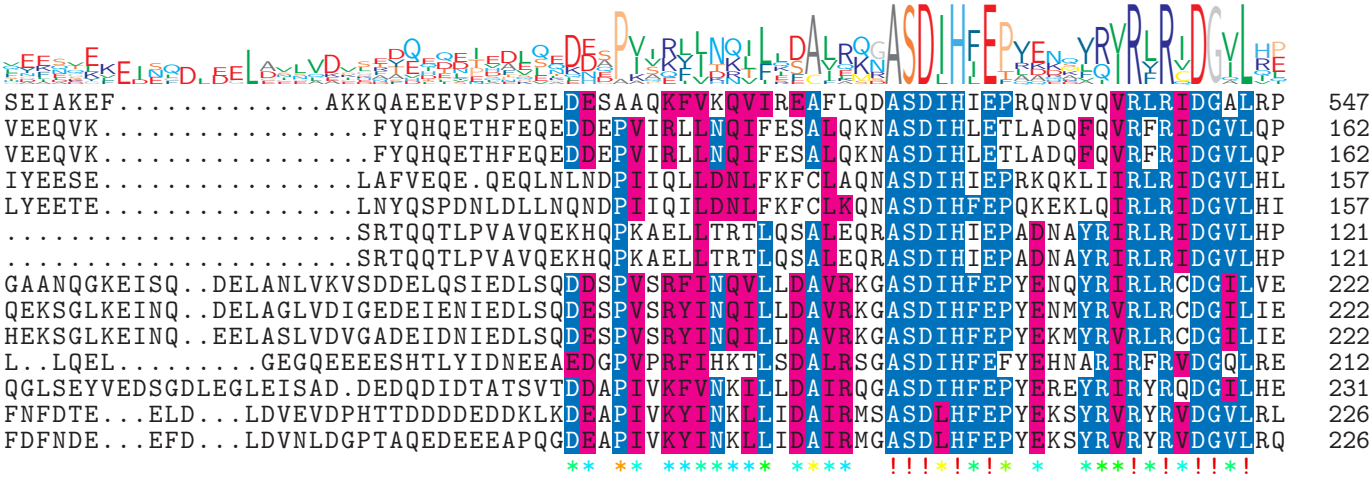
|                                             |                                                                                    |     |
|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1028 TT RS08215 WP 011173991.1      | KEALEVQKGLPRAKPLGEIIVELGLARPEDVEEALQKQRRGGGRLEDITLVQSGKLRPEALIAQAVATQLGYPYVDPEEDPP | 400 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1    | .....MTSY....ALLHTQRVTAQNGEIFTI.....SP                                             | 24  |
| NTDB id 1355 HI 0298 AAC21962.1             | .....MTSY....ALLHTQRVTAQNGEIFTI.....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 60310 MY015 RS19585 WP 001025155.1  | .....MNIPQL.....                                                                   | 6   |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1 | .....MNIPQL.....                                                                   | 6   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....MLTNLVAIIRQAELISATQEQAVVTQVSASGTSVPEALLLELSIFHAQELTEQLSHIFGLPETDLSRYDY        | 69  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....MLTNLSTVLRQAGILTFSQEESSLIEQVKASGISMPEALLSSGFFQSHETELHSSVFGLSCTSLNQYEY         | 69  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....MHSNLSTILRQKGLLTFSQEESSLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEY        | 69  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPR         | 68  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFVGPMLDINCIDV   | 77  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPLLDLGVFDP   | 77  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | ...MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEEFAEPYFDLDVYDT | 77  |
| consensus                                   | .....*                                                                             |     |

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|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1028 TT RS08215 WP 011173991.1      | DPGAPLLLPEDLCRRYGVFPHRLEGNRLVLLMKDPRNILLALDDVRLALKRKGLNVEVAPAVATEAAITKLTIERFYGKAEL | 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   | SRWQKNCEEKQLLRLYLAVPVQETEHKLWLAVDENNLTACEIFAFMTHK....QTEPVVVIASDELKYLNLALSPEQ      | 94  |
| NTDB id 1468 ASU2 RS05090 WP 014991734.1    | SLWQKNCEKHLILRLYLAIPIQENDDTLWLATDDMNNLSACEIFAFIAHK....TIEPVLLISSDELKYLNLALSPEQ     | 93  |
| NTDB id 60310 MY015 RS19585 WP 001025155.1  | .....TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....            | 63  |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1 | .....TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....            | 63  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | ANLCQQLGLRELITRYDALPIAKQGNLILLAVSDPTILLQAEDEFRAFATGL....QVELALADHRAALQAATIRRLYGR   | 144 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | ASLCQTLGLRLDITRHNALPLNRTSSTLILAVADPTNLQAEDDFRAFATGL....QVELVLADFRELTAATIRRLYGR     | 144 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | ASLCQQLGLRELITRHNALPLHRTPTSTLLAVADPTNLQAEDDFRAFATGL....QVELVLADFRELSTAIRRLYGR      | 144 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | HRVLMGVLTEEQMVFEHCVPVFRRGDKVFFAVSDPTQMPQIKTVSAAGI....AVELVIVEDDQLAGLLDWVGR         | 143 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKETIQFHTGL....NTHAIVVETDKLSALIDNLTAKES   | 152 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNTEAMDAIRFNSKL....KVEPIIVEHDKLERLLSEHFVEETH    | 152 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKL....LVEPVIVEHHKLEKVLGQHFAEES     | 152 |
| consensus                                   | *****                                                                              |     |

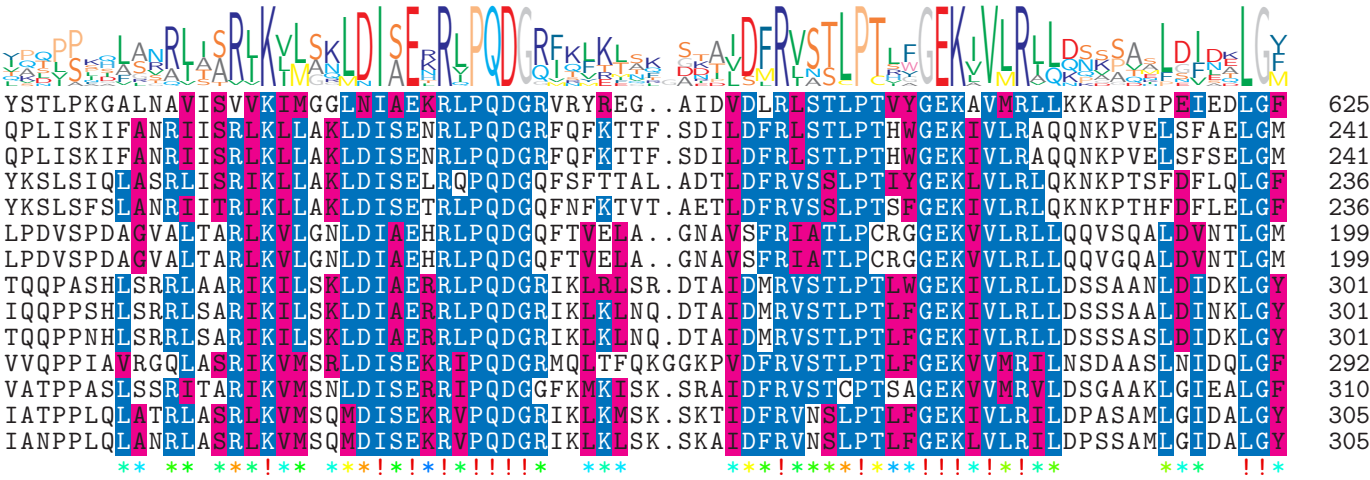
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|-----------|-------|---------|---------|------------|-------------|
| NTDB id   | 1028  | TT      | RS08215 | WP         | 011173991.1 |
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| NTDB id   | 1355  | HI      | 0298    | AAC21962.1 |             |
| NTDB id   | 1384  | A4U84   | RS08525 | WP         | 010787006.1 |
| NTDB id   | 1468  | ASU2    | RS05090 | WP         | 014991734.1 |
| NTDB id   | 60310 | MY015   | RS19585 | WP         | 001025155.1 |
| 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   | 1110  | NGFG    | RS09235 | WP         | 003689817.1 |
| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1018  | ACIAD   | RS01685 | WP         | 004920473.1 |
| NTDB id   | 1058  | ABD1    | RS01615 | WP         | 001274986.1 |
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| NTDB id   | 1168  | A1552VC | RS11070 | WP         | 000957200.1 |
| NTDB id   | 1401  | DSB67   | RS12665 | WP         | 010643259.1 |
| NTDB id   | 1293  | VP      | RS12240 | WP         | 005479695.1 |
| NTDB id   | 1110  | NGFG    | RS09235 | WP         | 003689817.1 |
| 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   | 1355  | HI      | 0298    | AAC21962.1 |             |
| NTDB id   | 1384  | A4U84   | RS08525 | WP         | 010787006.1 |
| NTDB id   | 1468  | ASU2    | RS05090 | WP         | 014991734.1 |
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| NTDB id   | 1168  | A1552VC | RS11070 | WP         | 000957200.1 |
| NTDB id   | 1401  | DSB67   | RS12665 | WP         | 010643259.1 |
| NTDB id   | 1293  | VP      | RS12240 | WP         | 005479695.1 |
| NTDB id   | 1110  | NGFG    | RS09235 | WP         | 003689817.1 |
| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

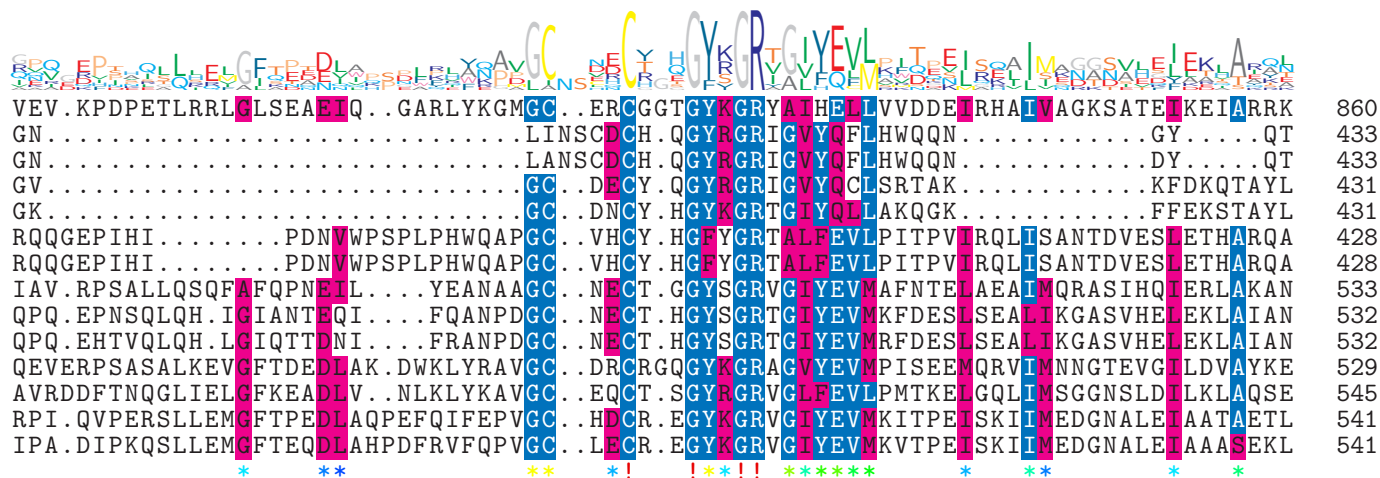
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NTDB id 1028 TT RS08215 WP 011173991.1
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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 non conserved  
 similar  
  $\geq 50\%$  conserved