

|                                               |                                                                                   |    |
|-----------------------------------------------|-----------------------------------------------------------------------------------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | .....                                                                             | 0  |
| NTDB id 1028 TT RS08215 WP 011173991.1        | MSVLTIIGDKRLGAALLDAGLLTDEELQRALERHREVGGS�AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 80 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....                                                                             | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1        | .....                                                                             | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | .....                                                                             | 0  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1      | .....                                                                             | 0  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | .....                                                                             | 0  |
| NTDB id 197710 XCCCN15 RS05435 WP 040940802.1 | .....                                                                             | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | .....                                                                             | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | .....                                                                             | 0  |
| consensus                                     |                                                                                   |    |

|                                               |                                                                                  |     |
|-----------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | .....                                                                            | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1        | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 160 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....                                                                            | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1        | .....                                                                            | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | .....                                                                            | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1      | .....                                                                            | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | .....                                                                            | 0   |
| NTDB id 197710 XCCCN15 RS05435 WP 040940802.1 | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | .....                                                                            | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | .....                                                                            | 0   |
| consensus                                     |                                                                                  |     |

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|-----------------------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | .....                                                                           | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1        | EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL | 240 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....                                                                           | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1        | .....                                                                           | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | .....                                                                           | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1      | .....                                                                           | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | .....                                                                           | 0   |
| NTDB id 197710 XCCCN15 RS05435 WP 040940802.1 | .....                                                                           | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | .....                                                                           | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | .....                                                                           | 0   |
| consensus                                     |                                                                                 |     |

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|----------------|--------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | LRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL | 7   |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | .....MTSSSSSS                                                                      | 320 |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | .....                                                                              | 0   |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | .....                                                                              | 0   |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | .....                                                                              | 0   |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | .....                                                                              | 0   |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | .....                                                                              | 0   |
| NTDB id 197710 | XCCCN15 RS05435 WP 040940802.1 | .....                                                                              | 0   |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | .....                                                                              | 0   |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | .....                                                                              | 0   |
| consensus      |                                |                                                                                    |     |

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|----------------|--------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | MSA.....TTLPTLRLVQGLVITATQEEALQVKAASLPXLLTSSSPSELAELTSEFGP                          | 86  |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | KKSR.AVALRNYFSPFGNKLTVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPPELLRQYKKNQLFELKVLVGYVD | 391 |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | KEALEVQKGLPRAKPLGETILVELGLARPEDVEEALQKQRRGGGRLEDTLVQ..SGKLRPEALAAQ.....VATQLGYP     | 60  |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | .....MLTNLVAILRQAEILISATQEQAVVTQVSASGTSVPEALL..LSIFHAQELTEQ.....LSHIFGLP            | 60  |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | .....MHSNLSLTLRQKGLLTFQSQEESLIEQVKASGISMPEALLS..SGFFTSSSELAEH.....LSSIFGLS          | 60  |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | .....MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVFGLS            | 59  |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | .....MSVGLLRILVQNQVVTIVEQAEHYYNESQ.AGKEVLPMLFS..DGVISPKSLAAL.....IARVFSYS           | 68  |
| NTDB id 197710 | XCCCN15 RS05435 WP 040940802.1 | ..MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNFQVGP      | 70  |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | .MNAVISANLVGITGIARRLVQDQALDETAARTAMEQAASARVPLPQWFAE..RKLVITASQLAAA.....NAVEFGMP     | 68  |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | .MSAL..HTSPKFTGFFRRRLVEEKHVSAAATMQTALDAAKRAKQDVTAYLIE..EVHLSPSLLAET.....ISAEFAEP    | 68  |
| consensus      |                                | .MSAF..TTPPKFSGFIRRVEECGYVNAQNMQQALEKAKKFKQDTPVYLLID..NFSISPLTLAEI.....ISLEFGEP     | 68  |
|                |                                | *** *!* ** **** *                                                                   |     |

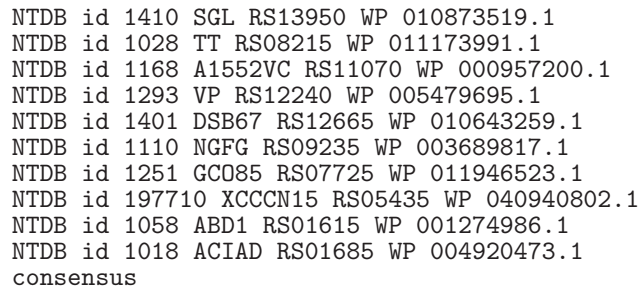
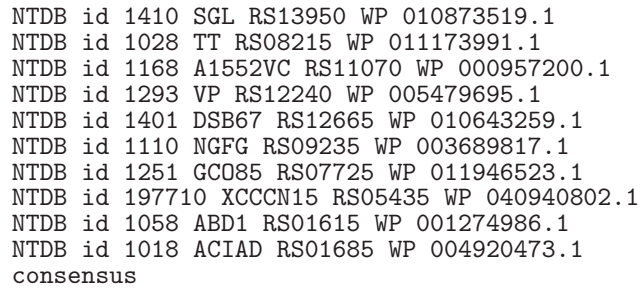
logo

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|----------------|--------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1410   | SGL RS13950 WP 010873519.1     | SVDPPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKG..FELRRLVVT   | 164 |
| NTDB id 1028   | TT RS08215 WP 011173991.1      | YVDPEEDPPDP....GAPLLIPEDLCRRYGVPFHRLE..GNRLVLMLMKDPRNILALDDVRLALKRKGLNIEVAPAVAT   | 463 |
| NTDB id 1168   | A1552VC RS11070 WP 000957200.1 | ETDLSRYDYAN....LCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEFRRFATG.....LQVELALAD  | 127 |
| NTDB id 1293   | VP RS12240 WP 005479695.1      | QPELSQYEYAS....LCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRRFATG.....LQVELVLAD  | 127 |
| NTDB id 1401   | DSB67 RS12665 WP 010643259.1   | CTSLNQYEYAS....LCQTLGLRLDLITRHNALPLNRT...SSTLILAVADPTNIQAEDDFRRFATG.....LQVELVLAD | 126 |
| NTDB id 1110   | NGFG RS09235 WP 003689817.1    | ILDLRHYPRHR....VLMGVLTEEQMVEFHCVPFRR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELVIVE    | 135 |
| NTDB id 1251   | GCO85 RS07725 WP 011946523.1   | MLDINCIDVGT....IPVNLVNEKLIKRRHAMVPLFSR...GTNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVE   | 137 |
| NTDB id 197710 | XCCCN15 RS05435 WP 040940802.1 | LMDVSVFDASQ....NAVKLVSEELIQKYQVLPFLFR...GNRLFVGVSNPTQTRALDDIKFHTN.....LVVEPILVD   | 135 |
| NTDB id 1058   | ABD1 RS01615 WP 001274986.1    | YFDLDVYDTSQ....IPKDLVDQKLILKHRILPLIQR...GQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVE   | 135 |
| NTDB id 1018   | ACIAD RS01685 WP 004920473.1   | LIDLGVFDPAL....FLKDKIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPILIVE  | 135 |
| consensus      |                                | *** ** *                                                                          |     |

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 197710 XCCCN15 RS05435 WP 040940802.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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logo

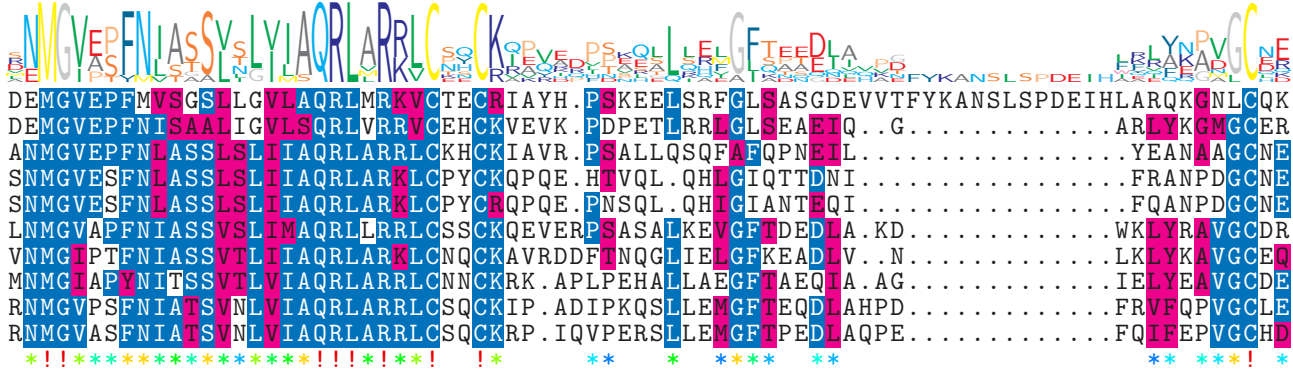
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NTDB id 1293 VP RS12240 WP 005479695.1  
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NTDB id 1110 NGFG RS09235 WP 003689817.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 197710 XCCCN15 RS05435 WP 040940802.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



481  
754  
430  
430  
430  
421  
439  
443  
434  
434

logo

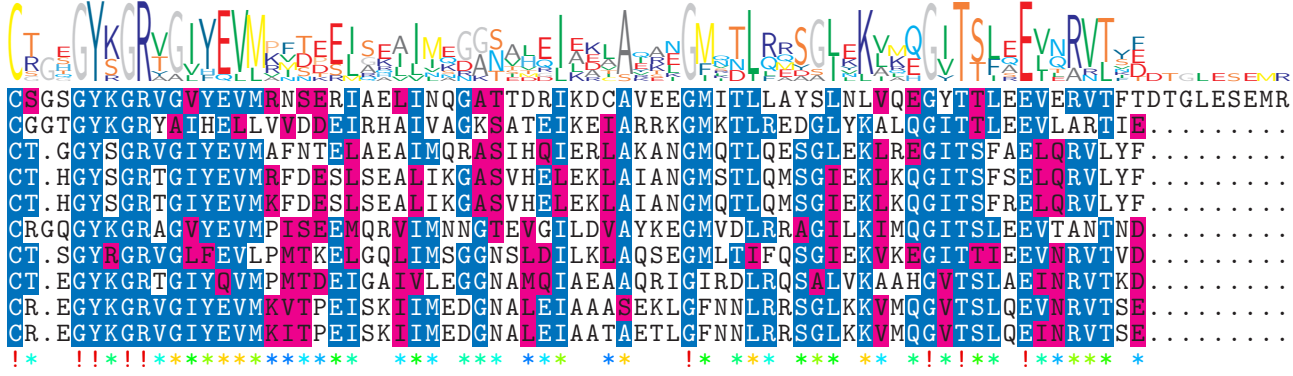
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NTDB id 1293 VP RS12240 WP 005479695.1  
NTDB id 1401 DSB67 RS12665 WP 010643259.1  
NTDB id 1110 NGFG RS09235 WP 003689817.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 197710 XCCCN15 RS05435 WP 040940802.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



560  
818  
492  
491  
491  
487  
504  
508  
500  
500

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NTDB id 1410 SGL RS13950 WP 010873519.1  
NTDB id 1028 TT RS08215 WP 011173991.1  
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 1110 NGFG RS09235 WP 003689817.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 197710 XCCCN15 RS05435 WP 040940802.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



640  
889  
562  
561  
561  
558  
574  
578  
570  
570

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|-----------------------------------------------|----------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | AKRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1028 TT RS08215 WP 011173991.1        | .....                            | 889 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....                            | 562 |
| NTDB id 1293 VP RS12240 WP 005479695.1        | .....                            | 561 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | .....                            | 561 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1      | .....                            | 558 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | .....                            | 574 |
| NTDB id 197710 XCCCN15 RS05435 WP 040940802.1 | .....                            | 578 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | .....                            | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | .....                            | 570 |
| consensus                                     |                                  |     |

-  non conserved
-  similar
-  ≥ 50% conserved