

logo

|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK | 0  |
| NTDB id 1028 TT RS08215 WP 011173991.1      | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK | 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 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0  |
| NTDB id 77320 H7R41 RS15920 WP 001274983.1  | .....                                                                            | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0  |
| consensus                                   |                                                                                  |    |

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|                                             |                                                                                  |     |
|---------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG | 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 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0   |
| NTDB id 77320 H7R41 RS15920 WP 001274983.1  | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0   |
| consensus                                   |                                                                                  |     |

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|                                             |                                                                                 |     |
|---------------------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL | 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 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                           | 0   |
| NTDB id 77320 H7R41 RS15920 WP 001274983.1  | .....                                                                           | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                           | 0   |
| consensus                                   |                                                                                 |     |

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
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NTDB id 77320 H7R41 RS15920 WP 001274983.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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consensus

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NTDB id 77320 H7R41 RS15920 WP 001274983.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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SVDPEVAPIATQMAELIGRFFPLDTCRRFKFLP LAQQEGDPSPVLAVVPDPNLAQAQDELNRILRVKGF..ELRRLVVT 164  
YVDPEEDPPDP.....GAPLLLPEDLCRRYGVPFHRLE...GNRLVLLMKDDPNLILAD DVRLALKRKGLNYEVAPAVAT 463  
ETDLRSRYDIAN.....LCQQQLGLRELITRYDALPTAKQ...GNLLLLAVSDPTLLQAEERFRFATG.....LQVELALAD 127  
QP ELSQYEYAS.....LCQQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFATG.....LQVELVLAD 127  
CTSLNRQY EYAS.....LCQTGLRLDLITRHNAIPLNRT...SSTLLAVADPTNQQAEDDFRFATG.....LQVELVLAD 127  
ILDLRHYPRHR.....VLMGVLTTEEQGVEFHCVVFRR...GDKVFAVSDPTQMPPQIKTIVSAAG.....I AVELVIVE 126  
MLDINCIDVGT.....IPVNLVNEKL IKRHAMVPLFSR...CTNLYLATDDPSKKQASIKETIQFTG.....LNTHAIVVE 135  
LLDLGV FDPAL.....FLKDKIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNTEAMD AIFRNFSK.....LKVEPIIVE 135  
YFDLDVYDT SQ.....TPKDLVDQKLILKHRIPLLIQR...GGILYVATSNPSNIEAIDAIRFNFSK.....LLVEPVIVE 135  
YFDLDVYDT SQ.....IPKDLVDQKLILKHRIPLLIQR...GGILYVATSNPSNIEAIDAIRFNFSK.....LLVEPVIVE 135

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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 1018 ACIAD RS01685 WP 004920473.1
NTDB id 77320 H7R41 RS15920 WP 001274983.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

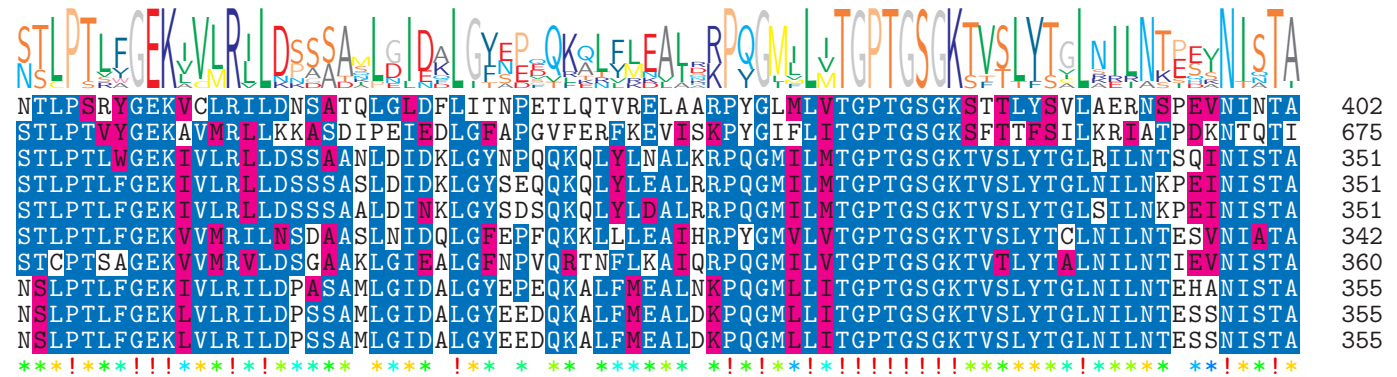
```



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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 DSBB67 RS12665 WP 010643259.1
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 77320 H7R41 RS15920 WP 001274983.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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logo

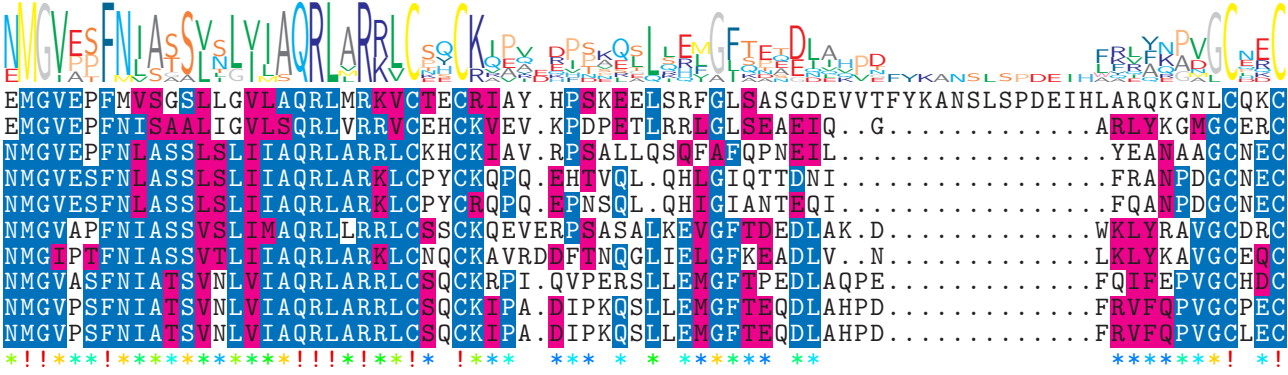
|           |       |                                |
|-----------|-------|--------------------------------|
| NTDB id   | 1410  | SGL RS13950 WP 010873519.1     |
| NTDB id   | 1028  | TT RS08215 WP 011173991.1      |
| NTDB id   | 1168  | A1552VC RS11070 WP 000957200.1 |
| NTDB id   | 1293  | VP RS12240 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   | 1018  | ACIAD RS01685 WP 004920473.1   |
| NTDB id   | 77320 | H7R41 RS15920 WP 001274983.1   |
| NTDB id   | 1058  | ABD1 RS01615 WP 001274986.1    |
| consensus |       |                                |



|     |
|-----|
| 482 |
| 755 |
| 431 |
| 431 |
| 431 |
| 422 |
| 440 |
| 435 |
| 435 |
| 435 |

logo

|           |       |                                |
|-----------|-------|--------------------------------|
| 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   | 1018  | ACIAD RS01685 WP 004920473.1   |
| NTDB id   | 77320 | H7R41 RS15920 WP 001274983.1   |
| NTDB id   | 1058  | ABD1 RS01615 WP 001274986.1    |
| consensus |       |                                |



|     |
|-----|
| 561 |
| 819 |
| 493 |
| 492 |
| 492 |
| 488 |
| 505 |
| 501 |
| 501 |
| 501 |

logo

|           |       |                                |
|-----------|-------|--------------------------------|
| NTDB id   | 1410  | SGL RS13950 WP 010873519.1     |
| NTDB id   | 1028  | TT RS08215 WP 011173991.1      |
| NTDB id   | 1168  | A1552VC RS11070 WP 000957200.1 |
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| NTDB id   | 1401  | DSB67 RS12665 WP 010643259.1   |
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| NTDB id   | 1018  | ACIAD RS01685 WP 004920473.1   |
| NTDB id   | 77320 | H7R41 RS15920 WP 001274983.1   |
| NTDB id   | 1058  | ABD1 RS01615 WP 001274986.1    |
| consensus |       |                                |



|     |
|-----|
| 641 |
| 889 |
| 562 |
| 561 |
| 561 |
| 558 |
| 574 |
| 570 |
| 570 |
| 570 |

logo

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|---------------------------------------------|---------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | KRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 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 1018 ACIAD RS01685 WP 004920473.1   | .....                           | 570 |
| NTDB id 77320 H7R41 RS15920 WP 001274983.1  | .....                           | 570 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                           | 570 |
| consensus                                   |                                 |     |

-  non conserved
-  similar
-  ≥ 50% conserved