

logo

|                                               |                                                                                  |    |
|-----------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | MSXLSIGDRRLGAALLDQGYLDNQLQRALERHREVGGLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV   | 0  |
| NTDB id 1028 TT RS08215 WP 011173991.1        | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 80 |
| NTDB id 1306 DR RS10060 WP 027479822.1        | .MALSIGDRRLGAILLDQGYLGNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL  | 79 |
| 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 1004182 ABH623 RS23450 WP 003112841.1 | .....                                                                            | 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       | RLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P  | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1        | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P | 158 |
| NTDB id 1306 DR RS10060 WP 027479822.1        | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA | 157 |
| 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 1004182 ABH623 RS23450 WP 003112841.1 | .....                                                                            | 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       | SGEGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1        | SGEGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA | 237 |
| NTDB id 1306 DR RS10060 WP 027479822.1        | SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL | 237 |
| 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 1004182 ABH623 RS23450 WP 003112841.1 | .....                                                                            | 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
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consensus
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[illegible]

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[illegible]

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consensus
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| Sequence                                                                                                                                                      | Position |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| G V D S V D P E V A P I A T Q Q M A E L I G R F F P L D T C R R F K F L P L A Q Q E G D P P S V L V A M V D P D N L A A Q D E L N R I L R V K G F . E L R R L | 161      |
| G Y P Y V D P E E D P P D . . . . P G A P L L L P E D L C R R Y G V F P H R L E G . . . N R L V L M K D P R N I L A D D V R L A L K R K G L N Y E V A P A     | 460      |
| G Y E F L D P I Q N P P D . . . . P K V A L M I P E A T A R R Y V V V P V R L Q G . . . N S L V V A M K D P R N V F A D D L K L I T G . . . . K E I L P A     | 455      |
| G I P E T D L S R Y D Y A . . . . . N L C Q Q L G L R E L I T R Y D A L P I A K Q G . . . N L L L A V S D P T L L Q A E E E F R F A T G . . . . L Q V E L A   | 124      |
| G L S Q P E L S Q Y E Y A . . . . . S L C Q L L G L R E L I T R H N A L P L H R T P . . . S T L L A V A D P T N Q Q A E D D F R F A T G . . . . L Q V E L V   | 124      |
| G L S C T S L N Q Y E Y A . . . . . S L C Q T L G L R D L I T R H N A L P L N R T S . . . S T L L A V A D P T N L Q A E D D F R F A T G . . . . L Q V E L V   | 124      |
| S Y S I L D L R H Y P R H . . . . . R V L M G V I T E E Q M V E H C V P V F R R G . . . D K V F F A V S D P T Q M P Q I Q K T V S A A G . . . . I A V E L V   | 123      |
| G V P M L D I N C I D V G . . . . . T I P V N L V N E K L I K R H A M V P L F S R G . . . T N L Y L A T D D P S K Q A S I K E I Q F H T G . . . . L N T H A I | 132      |
| G I A Y C D L N S L D K E . . . . . S F P R D A I S E K L V R Q H R V I P L W R R G . . . N K L F V G I S D P A N H Q A I N D V Q F S T G . . . . L T T E A I | 129      |
| A E P Y F D L D V Y D T S . . . . . Q I P K D L V D Q K L I L K H R I L P L I Q R G . . . Q I L Y V A T S N P S N I E A I D A I R F N S K . . . . L L V E P V | 132      |
| G E P L L D L G V F D P A . . . . . L F L K D K I D E K L I Q K Y R I M P L V H R G . . . H V L Y V A T S N P T N I E A M D A I R F N S K . . . . L K V E P I | 132      |





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|-----------------------------------------------|-------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1       | EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1028 TT RS08215 WP 011173991.1        | .....                               | 889 |
| NTDB id 1306 DR RS10060 WP 027479822.1        | .....                               | 887 |
| 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 1004182 ABH623 RS23450 WP 003112841.1 | .....                               | 566 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | .....                               | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | .....                               | 570 |
| consensus                                     |                                     |     |

-  non conserved
-  similar
-  ≥ 50% conserved