

logo

|                                              |                                                                                                                                                                |    |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| NTDB id 1028 TT RS08215 WP 011173991.1       | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 80 |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1  | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 43613 VCA1004 RS09620 WP 086981568.1 | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1       | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | MSVLTI <sup>CD</sup> KRLGAALLDAGLLTDEEL <sup>QR</sup> ALERHREVGGS <sup>LA</sup> EV <sup>LV</sup> DMGLLSERRIAQTIEDRFGI <sup>PL</sup> VELHRVEI <sup>PP</sup> KVK | 0  |
| consensus                                    |                                                                                                                                                                |    |

logo

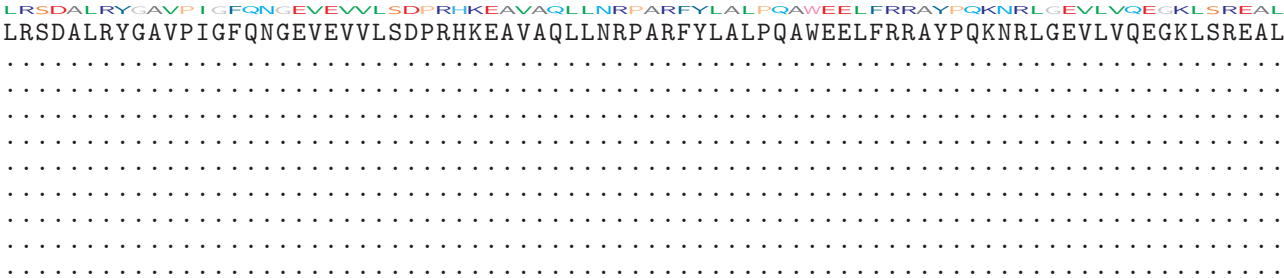
|                                              |                                                                                                            |     |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------|-----|
| NTDB id 1028 TT RS08215 WP 011173991.1       | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 160 |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1  | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 43613 VCA1004 RS09620 WP 086981568.1 | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1       | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | ALLPAEKAKELKAIPFALDEEAGVVRVAF <sup>LN</sup> PLDTLSLEEVEDLTGLVVEPYQT <sup>TK</sup> SAFLYALAKHYPELGLPVPPPPSG | 0   |
| consensus                                    |                                                                                                            |     |

logo

|                                              |                                                                                                           |     |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----|
| NTDB id 1028 TT RS08215 WP 011173991.1       | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 240 |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1  | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 43613 VCA1004 RS09620 WP 086981568.1 | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1       | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | EGQKDLKL <sup>GE</sup> LL <sup>LQ</sup> KGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVPDPSAALLL | 0   |
| consensus                                    |                                                                                                           |     |

logo

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NTDB id 43613 VCA1004 RS09620 WP 086981568.1  
NTDB id 1168 A1552VC RS11070 WP 000957200.1  
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NTDB id 1110 NGFG RS09235 WP 003689817.1  
NTDB id 1251 GC085 RS07725 WP 011946523.1  
NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



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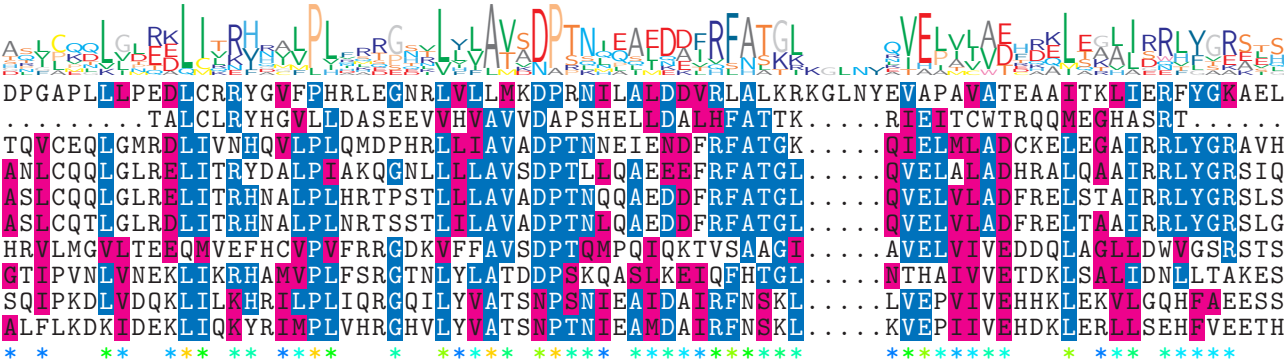
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NTDB id 1168 A1552VC RS11070 WP 000957200.1  
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NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



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logo

NTDB id 1028 TT RS08215 WP 011173991.1  
NTDB id 1436 BW25113 RS00530 WP 001025145.1  
NTDB id 43613 VCA1004 RS09620 WP 086981568.1  
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NTDB id 1058 ABD1 RS01615 WP 001274986.1  
NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



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152

|           |       |         |         |    |              |   |                         |   |   |   |                |   |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |     |     |   |     |     |   |     |   |   |   |  |     |
|-----------|-------|---------|---------|----|--------------|---|-------------------------|---|---|---|----------------|---|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|---|-----|-----|---|-----|-----|---|-----|---|---|---|--|-----|
| NTDB id   | 1028  | TT      | RS08215 | WP | O11173991.1  | S | EIAKEFA.....KKQAEEVPSPL | L | D | E | S              | A | A          | K | F | V | K | V | I | R | E | A | F | L | Q | D | A | S | D | H | I | E | P | R | N | D | V | Q | V | R | L | R | I | D | G | A | L | R | P |   | 547 |   |   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |     |     |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 1436  | BW25113 | RS00530 | WP | O01025145.1  | . | .CQTLPVA                | V | Q | E | K              | H | Q          | P | K | A | E | L | T | R | T | L | Q | S | A | E | Q | R | A | S | D | H | I | E | P | A | D | N | A | Y | R | I | R | L | R | I | D | G | V | L | H   | P |   | 121 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |     |     |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 43613 | VCA1004 | RS09620 | WP | O086981568.1 | S | EHHKGD..ITQ             | D | E | L | A              | N | L          | V | E | V | S | S | D | E | I | Q | E | T | E | D | L | S | Q | D | E | A | P | V | S | R | F | I | N | Q | I | L | L | D | A | V | R | K | G | A | S   | D | I | H   | F | E | P | Y | E | D | I | Y | R | V | R | L | R | C | D | G   | I   | L | E |     | 222 |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 1168  | A1552VC | RS11070 | WP | O00957200.1  | G | A                       | A | N | G | K              | E | ..ISQ      | D | E | L | A | N | L | V | K | V | S | D | E | L | S | Q | D | E | A | P | V | S | R | F | I | N | Q | I | L | L | D | A | V | R | K | G | A | S | D   | I | H | F   | E | P | Y | E | D | I | Y | R | V | R | L | R | C | D | G | I   | L   | E |   | 222 |     |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 1293  | VP      | RS12240 | WP | O05479695.1  | H | E                       | K | S | G | L              | K | E...INQ    | E | L | A | S | L | D | V | G | A | D | E | I | N | I | E | D | L | S | Q | D | E | S | P | V | S | R | F | I | N | Q | I | L | L | D | A | V | R | K   | G | A | S   | D | I | H | F | E | P | Y | E | K | M | Y | R | V | R | L | R   | C   | D | G | I   | L   | E |     | 222 |   |     |   |   |   |  |     |
| NTDB id   | 1401  | DSB67   | RS12665 | WP | O10643259.1  | Q | E                       | K | S | G | L              | K | E...INQ    | D | E | L | A | G | L | V | D | I | G | E | D | E | I | N | I | E | D | L | S | Q | D | E | S | P | V | S | R | F | I | N | Q | I | L | L | D | A | V   | R | K | G   | A | S | D | I | H | F | E | P | Y | E | N | M | Y | R | V | R   | L   | R | C | D   | G   | I | L   | E   |   | 222 |   |   |   |  |     |
| NTDB id   | 1110  | NGFG    | RS09235 | WP | O03689817.1  | L | ..LQEL.....GEG          | Q | E | E | E              | E | S          | H | T | L | Y | I | D | N | E | E | A | E | D | G | P | V | P | R | F | I | H | K | T | L | S | D | A | L | R | S | G | A | S | D | I | H | F | E | F   | Y | E | H   | N | A | R | I | R | F | R | V | D | G | Q | L | R | E |   | 212 |     |   |   |     |     |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 1251  | GC085   | RS07725 | WP | O11946523.1  | Q | G                       | L | S | E | Y              | V | E          | D | S | G | D | L | E | G | L | E | I | S | A | D | E | D | E | D | Q | D | I | D | T | A | T | S | V | T | D | D | A | P | I | V | K | F | N | K | I   | L | L | D   | A | I | R | Q | G | A | S | D | I | H | F | E | P | Y | E | R   | E   | Y | R | I   | R   | Y | Q   | D   | G | I   | L | H | E |  | 231 |
| NTDB id   | 1058  | ABD1    | RS01615 | WP | O01274986.1  | F | D                       | F | N | D | E...EFD...LDVN | D | G          | P | T | A | E | D | E | E | E | A | P | Q | G | D | E | A | P | I | V | K | Y | I | N | K | L | L | I | D | A | I | R | M | G | A | S | D | L | H | F   | E | P | Y   | E | K | S | Y | R | V | R | Y | V | D | G | V | L | R | Q |     | 226 |   |   |     |     |   |     |     |   |     |   |   |   |  |     |
| NTDB id   | 1018  | ACIAD   | RS01685 | WP | O04920473.1  | F | N                       | F | D | T | E...E          | L | D...LDVEVD | P | H | T | T | D | D | D | D | D | E | D | E | D | E | D | E | D | E | D | E | A | P | I | V | K | Y | I | N | K | L | L | I | D | A | I | R | M | S   | A | S | D   | L | H | F | E | P | Y | E | K | S | Y | R | V | R | Y | V | D   | G   | V | L | R   | Q   |   | 226 |     |   |     |   |   |   |  |     |
| consensus |       |         |         |    |              |   |                         |   |   |   |                |   |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |     |     |   |     |     |   |     |   |   |   |  |     |

[illegible]

|           |       |                                |                                                                                                                                                                   |     |
|-----------|-------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB id   | 1028  | TT RS08215 WP 011173991.1      | A P G V F E R F K E V I S K P Y G I F L I T G P T G S G K S F T I T F S I L K R I A T P D K N T Q T I E D P V E Y E I P G I N Q T Q V N P Q A G L T F A R A L R A | 705 |
| NTDB id   | 1436  | BW25113 RS00530 WP 001025145.1 | Q P L Q L A D F A H A L Q Q P Q G L V L V T G P T G S G K T V T L Y S A L Q K L N T A D I N I C S V E D P V E I P I A G L N Q T Q I H P R A G L T F Q C V L R A   | 279 |
| NTDB id   | 43613 | VCA1004 RS09620 WP 086981568.1 | S E T Q K K I Y L D A L Q Q P Q G M I L M T G P T G S G K T V S L Y T G L R L E N T P D K N I S T A E D P V E I N L T G I N Q V Q V K P K I G F T F A A L R A     | 381 |
| NTDB id   | 1168  | A1552VC RS11070 WP 000957200.1 | N P Q Q K Q L Y L N A L K R P Q G M I L M T G P T G S G K T V S L Y T G L R I L N T S Q I N I S T A E D P V E I N L S G I N Q V Q V Q P K I G F G F A E A L R S   | 381 |
| NTDB id   | 1293  | VP RS12240 WP 005479695.1      | S E Q Q K Q L Y L E A L R R P Q G M I L M T G P T G S G K T V S L Y T G L N I L N K P E I N I S T A E D P V E I N L S G I N Q V Q V Q P K I G F G F A E A L R S   | 381 |
| NTDB id   | 1401  | DSB67 RS12665 WP 010643259.1   | S D S Q K Q L Y L D A L R R P Q G M I L M T G P T G S G K T V S L Y T G L S I L N K P E I N I S T A E D P V E I Y L P G I N Q V Q V Q P K I G F G F A E A L R S   | 381 |
| NTDB id   | 1110  | NGFG RS09235 WP 003689817.1    | E P F Q K K L L L E A T H R P Y G M V L V T G P T G S G K T V S L Y T C L N I L N T E S V N I A T A E D P A E I N L P G I N Q V N V N D K Q G L T F A A L K S     | 372 |
| NTDB id   | 1251  | GC085 RS07725 WP 011946523.1   | N P V Q R T N F L K A I Q R P Q G M I L V T G P T G S G K T V T L Y T A L N I L N T I E V N I S T A E D P V E I K V P G I N Q V N I N P K A G L T F S C A L R S   | 390 |
| NTDB id   | 1058  | ABD1 RS01615 WP 001274986.1    | E E D Q K A L F M E A L D K P Q G M L L I T G P T G S G K T V S L Y T G L N I L N T E S S N I S T A E D P V E I N L E G I N Q V N V N P K V G L T F A A L K S     | 385 |
| NTDB id   | 1018  | ACIAD RS01685 WP 004920473.1   | E P E Q K A L F M E A L N K P Q G M L L I T G P T G S G K T V S L Y T G L N I L N T E H A N I S T A E D P V E I N L E G V N Q V N V N P K V G L T F A A L R S     | 385 |
| consensus |       |                                | * * * * *                                                                                                                                                         |     |

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NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

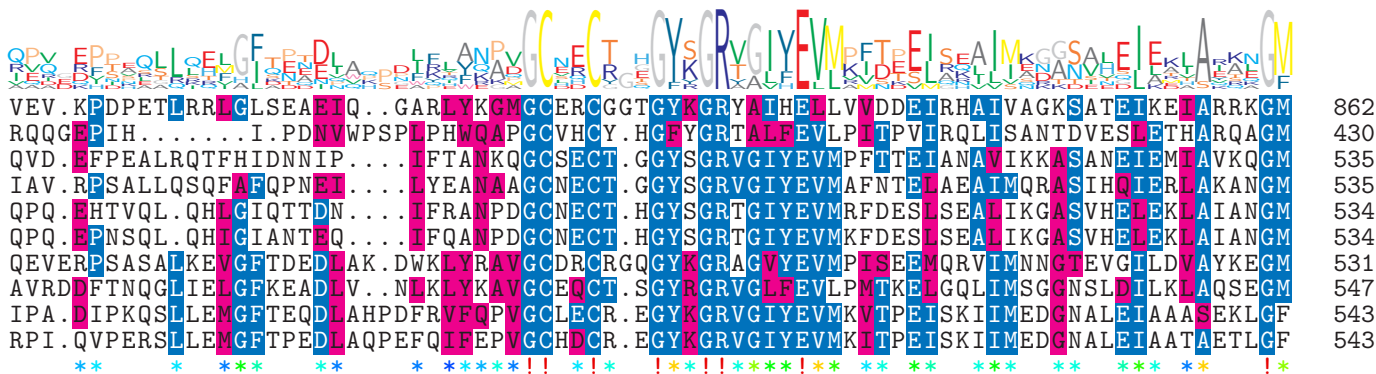
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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-  non conserved
-  similar
-  >50% conserved