

logo

|                                              |                                                                                    |    |
|----------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA | 0  |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                              | 0  |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                              | 0  |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA | 80 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                              | 0  |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                              | 0  |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                              | 0  |
| consensus                                    |                                                                                    |    |

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|----------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                              | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                              | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS | 160 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                              | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                              | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                              | 0   |
| consensus                                    |                                                                                    |     |

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|----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEHLATIHQFLDQELHQYDSYNALIRALHTLR   | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                             | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                             | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEHLATIHQFLDQELHQYDSYNALIRALHTLR | 240 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                             | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                             | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                             | 0   |
| consensus                                    |                                                                                   |     |

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|----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                             | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                             | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ | 320 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                             | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                             | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                             | 0   |
| consensus                                    |                                                                                   |     |

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|----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                             | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                             | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV | 400 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                             | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                             | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                             | 0   |
| consensus                                    |                                                                                   |     |

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|----------------------------------------------|---------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYN IEP | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                 | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                 | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYN IEP | 480 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                 | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                 | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                 | 0   |
| consensus                                    |                                                                                       |     |

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|----------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLM | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                            | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                            | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLM | 560 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                            | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                            | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                            | 0   |
| consensus                                    |                                                                                  |     |

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|----------------------------------------------|------------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | RYLHTLKGGANMVQATYLG L I AHELES IYERLI QKQLVVTSDLI DFI RL VQDDLADRLQIMREQQLDYAAPYTINALKRA | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                    | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                    | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | RYLHTLKGGANMVQATYLG L I AHELES IYERLI QKQLVVTSDLI DFI RL VQDDLADRLQIMREQQLDYAAPYTINALKRA | 640 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                    | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                    | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                    | 0   |
| consensus                                    |                                                                                          |     |

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|----------------------------------------------|----------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | GQNSNFQPLPVVEAFDAESEVFSEQKVI SEI I I DEIPVELEPALAELETHHDQVFD TAVTELATPVEMI TTVTSQENEVA | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                  | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                  | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | GQNSNFQPLPVVEAFDAESEVFSEQKVI SEI I I DEIPVELEPALAELETHHDQVFD TAVTELATPVEMI TTVTSQENEVA | 720 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                  | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                  | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                  | 0   |
| consensus                                    |                                                                                        |     |

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|----------------------------------------------|----------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | ANEQDI EAWVEQT FLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMV GLEAVQAI AYQLENAFEQFAL | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                  | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                  | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | ANEQDI EAWVEQT FLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMV GLEAVQAI AYQLENAFEQFAL | 800 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                  | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                  | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                  | 0   |
| consensus                                    |                                                                                        |     |

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|----------------------------------------------|------------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | HHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENI QFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPM | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                    | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                    | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | HHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENI QFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPM | 880 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                    | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                    | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                    | 0   |
| consensus                                    |                                                                                          |     |

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|----------------------------------------------|-------------------------------------------------------------------------------------------|-----|
| NTDB id 372 SMU RS05280 WP 002262198.1       | GAWEQTERLDQNNEMI RVSADLI EKMI DLSGENS I NRSRI EMDLSQFSHTLVEMELAI QRLADQLRRMEGELETQ I IAKH | 0   |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                     | 0   |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                     | 0   |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | GAWEQTERLDQNNEMI RVSADLI EKMI DLSGENS I NRSRI EMDLSQFSHTLVEMELAI QRLADQLRRMEGELETQ I IAKH | 960 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                     | 0   |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                     | 0   |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                     | 0   |
| consensus                                    |                                                                                           |     |

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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| NTDB id 372 SMU RS05280 WP 002262198.1       | G I E H S R Y T D F D P L E M D Q Y S S L N Q L S K S L A E S A S D L V D F K N T L S D K I R D T E S L L L Q Q S R I Q A E I Q E G L M R T R L V P F S R L L P | 0    |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                                                                                           | 0    |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                                                                                           | 0    |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | G I E H S R Y T D F D P L E M D Q Y S S L N Q L S K S L A E S A S D L V D F K N T L S D K I R D T E S L L L Q Q S R I Q A E I Q E G L M R T R L V P F S R L L P | 1040 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                                                                                           | 0    |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                                                                                           | 0    |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                                                                                           | 0    |
| consensus                                    |                                                                                                                                                                 |      |

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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| NTDB id 372 SMU RS05280 WP 002262198.1       | R L Q R I V R Q T S T A L N R P A E L F V N N T E G E L D R N I L E R L V T P L E H M L R N A I D H G L E D R A Q R Q Q A N K P E T G R I E L N I Q R Q G T D V | 0    |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                                                                                           | 0    |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                                                                                           | 0    |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | R L Q R I V R Q T S T A L N R P A E L F V N N T E G E L D R N I L E R L V T P L E H M L R N A I D H G L E D R A Q R Q Q A N K P E T G R I E L N I Q R Q G T D V | 1120 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                                                                                           | 0    |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                                                                                           | 0    |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                                                                                           | 0    |
| consensus                                    |                                                                                                                                                                 |      |

logo

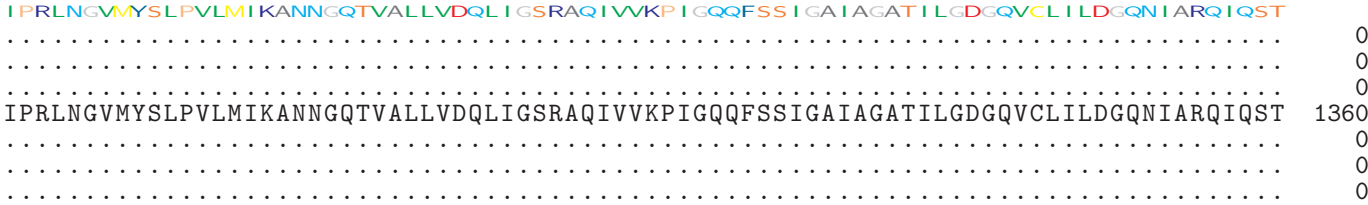
|                                              |                                                                                                                                                                 |      |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| NTDB id 372 SMU RS05280 WP 002262198.1       | V V V F S D D G Q G I D V E K V R Q K A L L A G L I K P E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S | 0    |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                                                                                           | 0    |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                                                                                           | 0    |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | V V V F S D D G Q G I D V E K V R Q K A L L A G L I K P E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S | 1200 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                                                                                           | 0    |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                                                                                           | 0    |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                                                                                           | 0    |
| consensus                                    |                                                                                                                                                                 |      |

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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| NTDB id 372 SMU RS05280 WP 002262198.1       | V Y G Q G T T F T I R V P T T V A V S D A L M V K V A D Q Q F A I P L A Q I D R I I R V S P A S L E Q Y F E S P Q E L F E Y E N K R Y P L R Y L S E F V G N Q P | 0    |
| NTDB id 374 SMU RS06885 WP 002262930.1       | .....                                                                                                                                                           | 0    |
| NTDB id 413 AAK55817.1 141..845( )           | .....                                                                                                                                                           | 0    |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | V Y G Q G T T F T I R V P T T V A V S D A L M V K V A D Q Q F A I P L A Q I D R I I R V S P A S L E Q Y F E S P Q E L F E Y E N K R Y P L R Y L S E F V G N Q P | 1280 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....                                                                                                                                                           | 0    |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....                                                                                                                                                           | 0    |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....                                                                                                                                                           | 0    |
| consensus                                    |                                                                                                                                                                 |      |

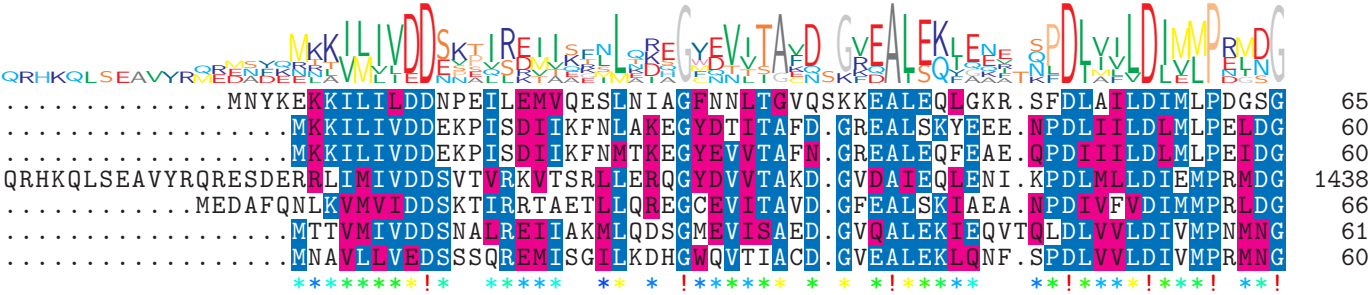
logo

NTDB id 372 SMU RS05280 WP 002262198.1  
NTDB id 374 SMU RS06885 WP 002262930.1  
NTDB id 413 AAK55817.1 141..845( )  
NTDB id 1046 HON27 RS03130 WP 168726941.1  
NTDB id 1047 HON27 RS03110 WP 000389061.1  
NTDB id 1132877 NMG72 RS01035 WP 214560400.1  
NTDB id 1417 SGL RS04200 WP 014407071.1  
consensus



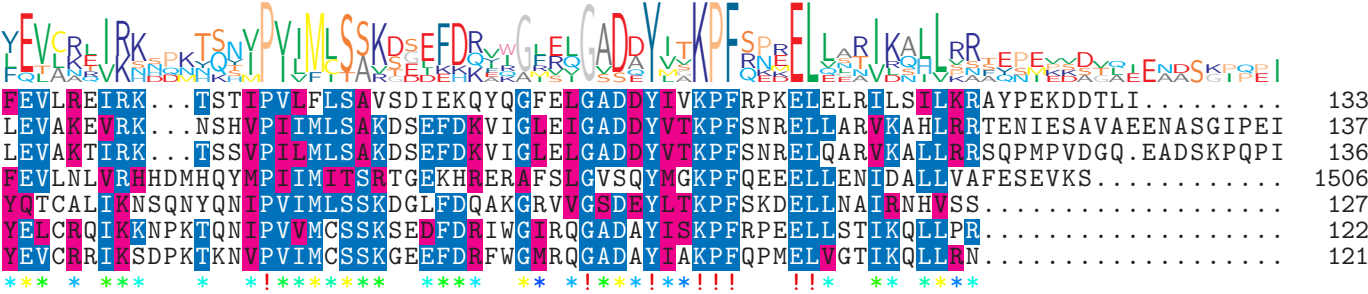
logo

NTDB id 372 SMU RS05280 WP 002262198.1  
NTDB id 374 SMU RS06885 WP 002262930.1  
NTDB id 413 AAK55817.1 141..845( )  
NTDB id 1046 HON27 RS03130 WP 168726941.1  
NTDB id 1047 HON27 RS03110 WP 000389061.1  
NTDB id 1132877 NMG72 RS01035 WP 214560400.1  
NTDB id 1417 SGL RS04200 WP 014407071.1  
consensus



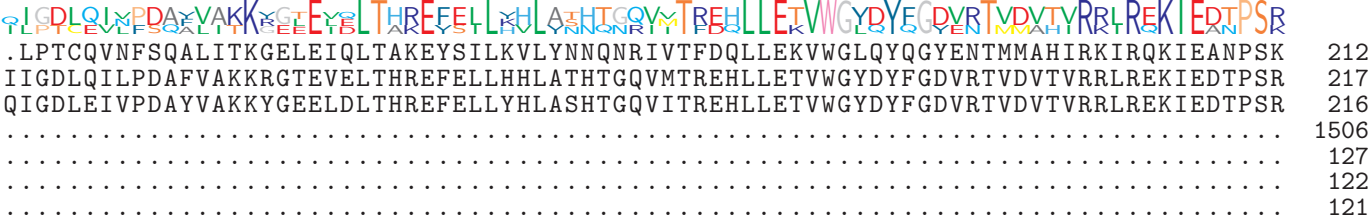
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NTDB id 372 SMU RS05280 WP 002262198.1  
NTDB id 374 SMU RS06885 WP 002262930.1  
NTDB id 413 AAK55817.1 141..845( )  
NTDB id 1046 HON27 RS03130 WP 168726941.1  
NTDB id 1047 HON27 RS03110 WP 000389061.1  
NTDB id 1132877 NMG72 RS01035 WP 214560400.1  
NTDB id 1417 SGL RS04200 WP 014407071.1  
consensus



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NTDB id 372 SMU RS05280 WP 002262198.1  
NTDB id 374 SMU RS06885 WP 002262930.1  
NTDB id 413 AAK55817.1 141..845( )  
NTDB id 1046 HON27 RS03130 WP 168726941.1  
NTDB id 1047 HON27 RS03110 WP 000389061.1  
NTDB id 1132877 NMG72 RS01035 WP 214560400.1  
NTDB id 1417 SGL RS04200 WP 014407071.1  
consensus



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|----------------------------------------------|--------|----------------|------|
| NTDB id 372 SMU RS05280 WP 002262198.1       | PECLLT | TVKGLGYKLKVS.. | 229  |
| NTDB id 374 SMU RS06885 WP 002262930.1       | PEYIL  | TRRGVGYMKSYD.  | 235  |
| NTDB id 413 AAK55817.1 141..845( )           | PEYIL  | TRRGVGYMRNNA*  | 234  |
| NTDB id 1046 HON27 RS03130 WP 168726941.1    | .....  |                | 1506 |
| NTDB id 1047 HON27 RS03110 WP 000389061.1    | .....  |                | 127  |
| NTDB id 1132877 NMG72 RS01035 WP 214560400.1 | .....  |                | 122  |
| NTDB id 1417 SGL RS04200 WP 014407071.1      | .....  |                | 121  |
| consensus                                    |        |                |      |

-  non conserved
-  similar
-  ≥ 50% conserved