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|                                              |         |                                                                            |          |    |
|----------------------------------------------|---------|----------------------------------------------------------------------------|----------|----|
| NTDB id 587 KW2 RS10850 WP 042211510.1       | ....MQT | DILRLILRPKGGKKLALIKQAKLIQLMGNLNNNGFNLGCVINFLALSKLVEKEFVFKMHQGLSSGKSLSEIL   | ESL      | 76 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1     | .MTFLQQ | DISLKEKHKQKKLKIKKQKQKVIQLFNNLFTSGFNLTEIIDFLERSHLLAEIYTKKMRQGILNGLHLAEIMSS  | SSL      | 79 |
| NTDB id 386 SMU RS09030 WP 255262721.1       | .MTFLQQ | DISLKEKHKQKKLKIKKQKQKVIQLFNNLFTSGFNLTEIIDFLERSHLLAEIYTKKMRQGILNGLHLAEIMSS  | SSL      | 79 |
| NTDB id 430 SGO RS09415 WP 012130941.1       | MISFLQQ | DISILSKQKQKKLGTSGKQKQVIELFNNLFSSSGFHLAETVDFLCRSALLKKNYVQKMRQGLANGQA        | FSEIMASL | 80 |
| NTDB id 106084 AAA980 RS10445 WP 073177425.1 | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRAGLSQGKSFSEMMES | L        | 74 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1     | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMES | L        | 74 |
| NTDB id 230 SPD RS09890 WP 074196785.1       | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMES | L        | 74 |
| NTDB id 196 SPR RS09425 WP 074196785.1       | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMES | L        | 74 |
| NTDB id 161 SP RS10375 WP 074196785.1        | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMES | L        | 74 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1   | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRDLSQGKSFSEMMES  | L        | 74 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1   | .....   | MDISQVFRLRRKKLATAKQKNIITLFNNLFSSSGFHLVETISFLDRSALLDKQCVTQMRAGLSQGKSFSEMMES | L        | 74 |
| consensus                                    |         | *****                                                                      |          |    |

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|----------------------------------------------|--|-------------------------------------------------------------------------------|--|-----|
| NTDB id 587 KW2 RS10850 WP 042211510.1       |  | GFSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLGLVIMGLRNYLLPQLDSSNIATQII   |  | 156 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1     |  | SFSKNVVTQLALVEVHGNLVTMQLVELHLKKQLKVKKKLEIATYPVLLVFLIGIMWGLKNYLLPQLDKGNMFATLLI |  | 158 |
| NTDB id 386 SMU RS09030 WP 255262721.1       |  | GFSDDDVTQLALSEVHGNLTQKSLKKIESYLNLIIVKKKKLEIATYPVLLVFLVIMGLKNYLLPQLDKGNMFATLLI |  | 158 |
| NTDB id 430 SGO RS09415 WP 012130941.1       |  | GFSDAVVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 159 |
| NTDB id 106084 AAA980 RS10445 WP 073177425.1 |  | GCSSITVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1     |  | GCSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 230 SPD RS09890 WP 074196785.1       |  | GCSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 196 SPR RS09425 WP 074196785.1       |  | GCSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 161 SP RS10375 WP 074196785.1        |  | GCSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1   |  | GFSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1   |  | GFSSAIVTQLSLAEVHGNLHLSLGLKIEEYLDNLAKVKKKLEIATYPVLLVFLVIMGLRNYLLPQLDSSNIATQII  |  | 153 |
| consensus                                    |  | *****                                                                         |  |     |

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|----------------------------------------------|--|------------------------------------------------------------------------------------|--|-----|
| NTDB id 587 KW2 RS10850 WP 042211510.1       |  | NHLPPLVFFSVGALIVLLTSLSTIIFKHISALINFTFLVKVPLVSSFIRLYLTAYFSREWGNLIAQGVETLRQIIEIMKKQK |  | 236 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1     |  | SNFPILFLLGCCFFILLVGIPTFFSRKISRLHLIGFCSHLPFVCKYLQLYLTAYYAREWGNLIQGGVEMAIQIVRLMODQK  |  | 238 |
| NTDB id 386 SMU RS09030 WP 255262721.1       |  | SNFPILFLLGCCFFILLVGIPTFFSRKISRLHLIGFCSHLPFVCKYLQLYLTAYYAREWGNLIQGGVEMAIQIVRLMODQK  |  | 238 |
| NTDB id 430 SGO RS09415 WP 012130941.1       |  | GHLPTIFLLTLVLMILGLTGAIYLVFKGQKRIPIVYSFLARLPFVGSFVRIYLTAYYAREWGNMIGQGLELSQIFQIMQEQR |  | 239 |
| NTDB id 106084 AAA980 RS10445 WP 073177425.1 |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1     |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 230 SPD RS09890 WP 074196785.1       |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 196 SPR RS09425 WP 074196785.1       |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 161 SP RS10375 WP 074196785.1        |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1   |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1   |  | GNLPQIFLGMVGLVSVLALLALTIFYKRSSKMSVFSILARLPFIFIVQTYLTAYYAREWGNMISQGMELTQIFQIMQEQQ   |  | 233 |
| consensus                                    |  | *****                                                                              |  |     |

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NTDB id 271 KZH43 RS09260 WP 074196785.1  
NTDB id 230 SPD RS09890 WP 074196785.1  
NTDB id 196 SPR RS09425 WP 074196785.1  
NTDB id 161 SP RS10375 WP 074196785.1  
NTDB id 529 SMSK321 RS09235 WP 080550783.1  
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NTDB id 230 SPD RS09890 WP 074196785.1  
NTDB id 196 SPR RS09425 WP 074196785.1  
NTDB id 161 SP RS10375 WP 074196785.1  
NTDB id 529 SMSK321 RS09235 WP 080550783.1  
NTDB id 501 SM12261 RS00950 WP 004238896.1  
consensus



☒ non conserved  
☒ similar  
☒ ≥ 50% conserved