

[illegible]

|                                           |                                                                                          |     |
|-------------------------------------------|------------------------------------------------------------------------------------------|-----|
| NTDB id 259 KZH43 RS03480 WP 000491790.1  | DASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTNIKAAV     | 166 |
| NTDB id 218 SPD RS03780 WP 000491790.1    | DASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTNIKAAV     | 166 |
| NTDB id 184 SPR RS03565 WP 000491790.1    | DASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTNIKAAV     | 166 |
| NTDB id 148 SP RS03910 WP 000491790.1     | DASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTNIKAAV     | 166 |
| NTDB id 59932 L897 RS04560 WP 011054528.1 | DSDDSKLLGTPTAANTDILFSANGTILNAFDAFSDNYQNHFLDKRRLGSGIETTSLMNFYGGEEKVHTITVRVHLKN.YPAVAAYMMA | 168 |
| NTDB id 363 SMU RS05195 WP 002262215.1    | ASFVKKSNGQMAANTDTILYDKKHNVINNWNAFSSLYHIRPKLKDIGDIVGEAKNIYGGOTEKYRTVTVKVNDF.YPQIKFATL     | 163 |
| consensus                                 | * * * * *                                                                                |     |

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|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB id 259 KZH43 RS03480 WP 000491790.1  | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLES MQKQQSFVENASHELRTPLAVLQNRLET LFRKPEATIM                                                                   | 251 |
| NTDB id 218 SPD RS03780 WP 000491790.1    | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLES MQKQQSFVENASHELRTPLAVLQNRLET LFRKPEATIM                                                                   | 251 |
| NTDB id 184 SPR RS03565 WP 000491790.1    | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLES MQKQQSFVENASHELRTPLAVLQNRLET LFRKPEATIM                                                                   | 251 |
| NTDB id 148 SP RS03910 WP 000491790.1     | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLES MQKQQSFVENASHELRTPLAVLQNRLET LFRKPEATIM                                                                   | 251 |
| NTDB id 59932 L897 RS04560 WP 011054528.1 | VVNVEQLDRANERYERI I I I V M S V F W L I S I L A S T Y L A K W S R K P I L E S Y E K Q K M F V E N A S H E L R T P L A V L Q N R L E S L F R K P N E T I L | 253 |
| NTDB id 363 SMU RS05195 WP 002262215.1    | VINTTQLEEANTTRYVT I I I S V M I V F W L I S V I A S Y L A K W S Q K P I L E N Y E K Q K S F V E N A S H E L R T P L A V L Q N R L E S L F R K P E A T I L | 248 |
| consensus                                 | * * * * *                                                                                                                                                 |     |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1  | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 218 SPD RS03780 WP 000491790.1    | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 184 SPR RS03565 WP 000491790.1    | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 148 SP RS03910 WP 000491790.1     | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 59932 L897 RS04560 WP 011054528.1 | ENSEHLASSLDEVNRMRILTTLNLLNLARRDDGINPQWTHLDTDFFNAIFENYELVAKIEYKIFYFGNQVNRSLRMDKALLKQLIT | 338 |
| NTDB id 363 SMU RS05195 WP 002262215.1    | DSSESIASSLEEVRNMRMLTANLLNLARRDDGIKPEITEIQPRFFDDTFKNYEMIARENGKKLHINKVNRQIKTDKTLKQLMT    | 333 |
| consensus                                 | *****                                                                                  |     |

|                                           |                                                                                        |     |
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| NTDB id 259 KZH43 RS03480 WP 000491790.1  | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVK  | 421 |
| NTDB id 218 SPD RS03780 WP 000491790.1    | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVK  | 421 |
| NTDB id 184 SPR RS03565 WP 000491790.1    | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVK  | 421 |
| NTDB id 148 SP RS03910 WP 000491790.1     | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVK  | 421 |
| NTDB id 59932 L897 RS04560 WP 011054528.1 | ILFDNAIKYTDKNGIIEIIVKTTDKNLLISVIDNGPGITDEKKKIFDRFYRVDKARTRQTGGFGLGLALAQQIVMSLKGNTIVK   | 423 |
| NTDB id 363 SMU RS05195 WP 002262215.1    | ILFDNAVKYTDNDGEIWLDDVKTTDRSLIFSVADNGQGISEDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQITDSLKGSITIVK | 418 |
| consensus                                 | .....*                                                                                 |     |

logo

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|-------------------------------------------|-------------------------|-----|
| NTDB id 259 KZH43 RS03480 WP 000491790.1  | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 218 SPD RS03780 WP 000491790.1    | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 184 SPR RS03565 WP 000491790.1    | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 148 SP RS03910 WP 000491790.1     | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 59932 L897 RS04560 WP 011054528.1 | DNDPKCSIFEVKL.....      | 436 |
| NTDB id 363 SMU RS05195 WP 002262215.1    | DKKPKQGVMEARLLANK.....  | 435 |
| consensus                                 | !***!*!****!!*****      |     |

-  non conserved
-  similar
-  ≥ 50% conserved