

[illegible][illegible]

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|-------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 587 KW2 RS10850 WP 042211510.1          | NHLPLVFFSVGALIVLLTSLIIIFKHISALTNFITFLVKVPLVSSFIRLYLTAYFSREWGNLIAGQVELRQTIELMKKQK    | 236 |
| NTDB id 977971 MGAS37831 RS00665 WP 011054115.1 | NHFPAFFIGFCSSLILLFGMVWLRWRSQSRLKLYSRLSRYPFGLKKLKQYLTSYYAREWGTLIGQGGLDMILTIDIMAEIK   | 239 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1        | SNFPIILFLLGCCFFILLVGIFTTFFSRKISRHLHIGFCSHLPFVGKYLLQLYLTAYYAREWGNLIGQGVEMAQIVRLMQDQK | 238 |
| NTDB id 386 SMU RS09030 WP 255262721.1          | SNFPIILFLLGCCFFILLVGIFTTFFSRKISRHLHIGFCSHLPFAGKYLLQLYLTAYYAREWGNLIGQGVEMAQIVRLMQDQK | 238 |
| NTDB id 430 SGO RS09415 WP 012130941.1          | GHLPTIFLLTVMLLGLTGAIYLVFKGQKRIPVVSFLARLPFVGSFVRILYLTAYYAREWGNMIGQGLELSQIFQMIMEQR    | 239 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1        | GNLPQIFLGMVGLVSVLALLALTfykrsSKMSVFSSILARLPFIGIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQQG   | 233 |
| NTDB id 230 SPD RS09890 WP 074196785.1          | GNLPQIFLGMVGLVSVLALLALTfykrsSKMSVFSSILARLPFIGIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQQG   | 233 |
| NTDB id 196 SPR RS09425 WP 074196785.1          | GNLPQIFLGMVGLVSVLALLALTfykrsSKMSVFSSILARLPFIGIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQQG   | 233 |
| NTDB id 161 SP RS10375 WP 074196785.1           | GNLPQIFLGMVGLVSVLALLALTfykrsSKMSVFSSILARLPFIGIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQQG   | 233 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1      | GNLPQIFLGMVGLVSLTLLALTfykrsSKMRVFSSILARIPFLGIFVQTYLTAYYAREWGNMISQGMELTQIFQMIMEQQ    | 233 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1      | GNLPQIFLGMVGFVSGLLALTfykrsSKMRVFSSILARIPFLGIFVQTYLTAYYAREWGNMISQGMELTQIFQMIMEQQ     | 233 |
| consensus                                       | *****!***** ***** *****!*****!*****!*****!*****!*****!*****                         |     |

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| NTDB id 587 KW2 RS10850 WP 042211510.1          | SRLFAEYGIKIDLGLKAGQNFQAVSHFSIFLPELSLMIEYGATKDKLGLELSVYADECWEQFFFSKIDRLMQLIQPLIFI     | 316 |
| NTDB id 977971 MGAS37831 RS00665 WP 011054115.1 | SSLMKELAEIDRMSLLEGQAFHIKVATYPFFKKELSLMIEYGEIKSKLGALEIYQAQESWEQFFSGLYQVTQLIQPAIFL     | 319 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1        | SQLFREIGYDMEKALLSGQEFHQKVLDPFFLKELSLMIEYGEVKSCLGNELEIYAEETWEHFFAKLKKATQFVQPLIFV      | 318 |
| NTDB id 386 SMU RS09030 WP 255262721.1          | SQLFREIGYDMEKALLSGQEFHQKVLDPFFLKELSLMIEYGEVKSCLGNELEIYAEETWEHFFAKLKKATQFVQPLIFV      | 318 |
| NTDB id 430 SGO RS09415 WP 012130941.1          | SVLFQEIQQDLGQALQNGQEFSDKTASYPFFKKELSLIIIEYGEVKSCLGSELEIYALKTWEEFFGRVNRMTMNLIQPLVFI   | 319 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1        | SQLFKEVGGDLAQTLKNGREFSQTICTYPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI   | 313 |
| NTDB id 230 SPD RS09890 WP 074196785.1          | SQLFKEVGGDLAQTLKNGREFSQTICTYPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI   | 313 |
| NTDB id 196 SPR RS09425 WP 074196785.1          | SQLFKEVGGDLAQTLKNGREFSQTICTYPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI   | 313 |
| NTDB id 161 SP RS10375 WP 074196785.1           | SQLFKEVGGDLAQTLKNGREFSQTICTYPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI   | 313 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1      | SQLFKEIGQDLAQSLQNGREFSQTIIATYPFFKKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI  | 313 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1      | SQLFKEIGQDMAHALQNGQEFSTICTYPFFKKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRMTMNLVQPLVFI    | 313 |
| consensus                                       | !*****!*****! *!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*! |     |

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| NTDB id 587 KW2 RS10850 WP 042211510.1          | FVALMIVLLYAAMLPIIYSNMGSGI                                                                        | 341 |
| NTDB id 977971 MGAS37831 RS00665 WP 011054115.1 | VVAVTIVMTIYAAIILLPIYQNMGGIF                                                                      | 344 |
| NTDB id 395 FSA28 RS09400 WP 257638827.1        | FVAIVIVMTIYAAAMLPIYQNMENVNL                                                                      | 343 |
| NTDB id 386 SMU RS09030 WP 255262721.1          | FVAIVIVMTIYAAAMLPIYQNMENVNL                                                                      | 343 |
| NTDB id 430 SGO RS09415 WP 012130941.1          | FVALMIVLLYAAMLPLIYQNMENVHL                                                                       | 344 |
| NTDB id 271 KZH43 RS09260 WP 074196785.1        | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| NTDB id 230 SPD RS09890 WP 074196785.1          | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| NTDB id 196 SPR RS09425 WP 074196785.1          | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| NTDB id 161 SP RS10375 WP 074196785.1           | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| NTDB id 529 SMSK321 RS09235 WP 080550783.1      | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| NTDB id 501 SM12261 RS00950 WP 004238896.1      | FVALIIVLLYAAMLMPMYQNMEVNF                                                                        | 338 |
| consensus                                       | *!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!! |     |

- non conserved
- similar
- ≥ 50% conserved