

[illegible]

NTDB id	587 KW2 RS10850 WP 042211510.1	SFSKNVVTQLALVEVHGNLVGTMQLVELHLKKQKLKVKKKLIEVATYPVVLLVFLIGITMWGLKNYLLPQLDKGNVFATLLI	156
NTDB id	978306 MGAS37817 RS00665 WP 011054115.1	GFSDAILTQISLADRHGNIETTLVAIQHYLNQMARIIRRTVEVITYPLILLFLFVMMLGLRRIYVPQLETQ.NQITYFL	159
NTDB id	395 FSA28 RS09400 WP 257638827.1	GFSDDVVTQLALSEVHGNTQKSLLKIESYLNLIILVKKKLVEVITYPTIILLIFLVVIMLGLKNYLLPQLEKG.NFATRLI	158
NTDB id	386 SMU RS09030 WP 255262721.1	GFSDDVVTQLALSEVHGNTQKSLLKIESYLNLIILVKKKLVEVITYPTIILLIFLVVIMLGLKNYLLPQLERG.NFATRLI	158
NTDB id	430 SGO RS09415 WP 012130941.1	GFSDAVVTQLSLAELHGNLSLALLKIEEYLDNLAKVKKKLIIEVATYPMMLLGFLVLIMIGLRNYLLPQLSSQ.NFATQLI	159
NTDB id	271 KZH43 RS09260 WP 074196785.1	GCSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLIMLGLRNYLLPQLDSS.NIATQII	153
NTDB id	230 SPD RS09890 WP 074196785.1	GCSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLIMLGLRNYLLPQLDSS.NIATQII	153
NTDB id	196 SPR RS09425 WP 074196785.1	GCSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLIMLGLRNYLLPQLDSS.NIATQII	153
NTDB id	161 SP RS10375 WP 074196785.1	GCSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLIMLGLRNYLLPQLDSS.NIATQII	153
NTDB id	529 SMSK321 RS09235 WP 080550783.1	GFSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLSIMLGLRNYLLPQLDSS.NIATQII	153
NTDB id	501 SM12261 RS00950 WP 004238896.1	GFSSAIVTQSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLIIEVATYPLILLGFLLIMLGLRNYLLPQLDSS.NIATQII	153
consensus		* * * * *	

NTDB id	587 KW2 RS10850 WP 042211510.1	NHLPVLVFFSVGALIVLLTSLIIIFKHISALTNFITFLVKVPLVSSFIRLYLTAYFSREWGNLTAQGVLRQTIELMKKQK	236
NTDB id	978306 MGAS37817 RS00665 WP 011054115.1	NHFPAFFIGFCSGILLFGMVWLRWRWSQLRLKLYSRLSRYPFLGKLLKQYLTSYYYAREWGTLIGQGGLDLMTILDIMAI EK	239
NTDB id	395 FSA28 RS09400 WP 257638827.1	SNFPILFLLGCCFFILLVGIFTFFSRKI SRLHLIGFCSHLPFVGKYLLQLYL TAYYAREWGNLI GQGVEMAQIVRLMQD QK	238
NTDB id	386 SMU RS09030 WP 255262721.1	SNFPILFLLGCCFFILLVGIFTFFSRKI SRLHLIGFCSHLPFAGKYLLQLYL TAYYAREWGNLI GQGVEMAQIVRLMQD QK	238
NTDB id	430 SGO RS09415 WP 012130941.1	GHLPTIFLLTVMLLGLTGAIYLVFKGQKRIPVVSFLARLPFVGSFVR IYLTAYYAREWGNMISQQGLESLQIFQMMEQR	239
NTDB id	271 KZH43 RS09260 WP 074196785.1	GNLPQIFLGMVGLVSVLALLALTIFYKRS SKMSVF SILARLPFI GIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQG	233
NTDB id	230 SPD RS09890 WP 074196785.1	GNLPQIFLGMVGLVSVLALLALTIFYKRS SKMSVF SILARLPFI GIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQG	233
NTDB id	196 SPR RS09425 WP 074196785.1	GNLPQIFLGMVGLVSVLALLALTIFYKRS SKMSVF SILARLPFI GIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQG	233
NTDB id	161 SP RS10375 WP 074196785.1	GNLPQIFLGMVGLVSVLALLALTIFYKRS SKMSVF SILARLPFI GIFVQTYLTAYYAREWGNMISQGMELTQIFQMMEQG	233
NTDB id	529 SMSK321 RS09235 WP 080550783.1	GNLPQIFLGMVGLVSLTLLALTIFYKRS SKMR VFSILARI PFL GIFVQTYLTAYYAREWGNMISQGMELTQIFQ IMEQG	233
NTDB id	501 SM12261 RS00950 WP 004238896.1	GNLPQIFLGMVGFVSGLLALTIFYKR GS KMRF VFSILARI PFL GIFVQTYLTAYYAREWGNMISQGMELTQIFQ IMEQG	233
consensus		*****!***** ***** !** ****!!****!! !! *!* !!! **! !!!!!!! *	

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NTDB id 587 KW2 RS10850 WP 042211510.1	SRLFAEYGIKIDLGLKAGQNFENVSHFSIFLPELSLMIEYGATKDKLGLELSVYADECWEEQFFSKIDRLMQLIQPLIFI	316
NTDB id 978306 MGAS37817 RS00665 WP 011054115.1	SSLMKELAEDIRMSLLEGQAFHIKVATYPFFKKELSLMIEYGEIKSKLGALELIYAQESWEQFFSGLYQVTQLIQPAIFL	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	SVLFQEIQQDLGQALQNGQEFSDKTASYPFFKKELSLIIIEYGEVKSCLGSELEIYALKTWEEFFGRVNRTMNLIQPLVFI	319
NTDB id 271 KZH43 RS09260 WP 074196785.1	SQLFKEVGGDLAQTLKNGREFSQTICTYPPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
NTDB id 230 SPD RS09890 WP 074196785.1	SQLFKEVGGDLAQTLKNGREFSQTICTYPPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
NTDB id 196 SPR RS09425 WP 074196785.1	SQLFKEVGGDLAQTLKNGREFSQTICTYPPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
NTDB id 161 SP RS10375 WP 074196785.1	SQLFKEVGGDLAQTLKNGREFSQTICTYPPFFRKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
NTDB id 529 SMSK321 RS09235 WP 080550783.1	SQLFKEIGQDLAQSLQNGREFSQTIIATYPFFKKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
NTDB id 501 SM12261 RS00950 WP 004238896.1	SQLFKEIGQDMAHALQNGQEFSTICTYPPFFKKELSLIIIEYGEVKSCLGSELEIYAEKTWEAFFTRVNRTMNLVQPLVFI	313
consensus	!*****!*****! *!	

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NTDB id 587 KW2 RS10850 WP 042211510.1	FVALMIVLLYAAMLPIIYSNMGSGI	341
NTDB id 978306 MGAS37817 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