

NTDB id 587 KW2 RS10850 WP 042211510.1	MQTDLRLRLRPKGKKLALIKQAKLIQLMGNLNNGFNLGEVINFLALSKLVEKBFVFKMHQGLSSGKSLSEILESLSF	78
NTDB id 430 SGO RS09415 WP 012130941.1	...MISFLQQDISILSKQKQKKLGTSSKQKQVIELFNNLFSSGFHLAETVDFLGRSALLEKNYVQQMRQGLANCQAFSEIMASLGF	82
NTDB id 271 KZH43 RS09260 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGC	76
NTDB id 230 SPD RS09890 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGC	76
NTDB id 196 SPR RS09425 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGC	76
NTDB id 161 SP RS10375 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGC	76
NTDB id 529 SMSK321 RS09235 WP 080550783.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGF	76
NTDB id 501 SM12261 RS00950 WP 004238896.1	MDISQVFRLRRKKLATAKQKNIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRVGLSQGKSFSEMMESLGF	76
NTDB id 22253 SAG RS03555 WP 223295889.1	MDKWISWLKKDISVRNRHHSKKLSLKKQRKVVQLFNNLFGSGFSLTDMVTFLKRSKLLSDCYTDSMNKALLEGKDLGKMLGELGF	85
NTDB id 395 FSA28 RS09400 WP 257638827.1	MTFLQQDISLKEKHKQKKLKIKKQRKVIQLFNNLFTSGFNLTETIIDFLERSHLLAEIYTKKMRQGLNLGLHLAEIMSSSLGF	81
NTDB id 386 SMU RS09030 WP 255262721.1	MTFLQQDISLKEKHKQKKLKIKKQRKVIQLFNNLFTSGFNLTETIIDFLERSHLLAEIYTKKMRQGLNLGLHLAEIMSSSLGF	81
consensus	*****	

[illegible]

NTDB id 587	KW2 RS10850 WP 042211510.1	F	S	V	G	A	L	I	V	L	L	T	S	L	S	I	I	F	K	H	I	S	A	L	T	N	F	T	F	L	V	K	V	P	L	V	S	S	F	I	R	L	Y	L	T	A	Y	F	S	R	E	W	G	N	L	I	A	Q	G	V	E	L	R	Q	I	I	E	L	M	K	K	Q	K	S	R	I	F	A	E	V	G	I	K	L	D	248
NTDB id 430	SGO RS09415 WP 012130941.1	L	L	T	V	L	M	L	L	G	L	T	G	A	I	Y	L	V	F	K	G	Q	K	R	I	P	V	Y	S	F	L	A	R	L	P	F	V	G	S	F	V	R	I	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	G	Q	G	L	E	S	Q	I	F	Q	I	M	Q	E	Q	R	S	V	L	F	Q	E	I	G	Q	D	L	C	251
NTDB id 271	KZH43 RS09260 WP 074196785.1	L	G	M	V	G	L	V	S	V	L	A	L	L	A	L	T	F	Y	K	R	S	K	M	S	V	F	S	I	L	A	R	L	P	F	I	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	M	M	Q	E	Q	S	Q	L	F	K	E	V	G	Q	D	L	A	245	
NTDB id 230	SPD RS09890 WP 074196785.1	L	G	M	V	G	L	V	S	V	L	A	L	L	A	L	T	F	Y	K	R	S	K	M	S	V	F	S	I	L	A	R	L	P	F	I	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	M	M	Q	E	Q	S	Q	L	F	K	E	V	G	Q	D	L	A	245	
NTDB id 196	SPR RS09425 WP 074196785.1	L	G	M	V	G	L	V	S	V	L	A	L	L	A	L	T	F	Y	K	R	S	K	M	S	V	F	S	I	L	A	R	L	P	F	I	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	M	M	Q	E	Q	S	Q	L	F	K	E	V	G	Q	D	L	A	245	
NTDB id 161	SP RS10375 WP 074196785.1	L	G	M	V	G	L	V	S	V	L	A	L	L	A	L	T	F	Y	K	R	S	K	M	S	V	F	S	I	L	A	R	L	P	F	I	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	M	M	Q	E	Q	S	Q	L	F	K	E	V	G	Q	D	L	A	245	
NTDB id 529	SMSK321 RS09235 WP 080550783.1	L	G	M	V	G	L	V	S	L	T	L	L	A	L	T	F	Y	K	R	S	K	M	R	V	F	S	I	L	A	R	I	P	F	L	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	I	M	Q	E	Q	S	Q	L	F	K	E	I	G	Q	D	L	A	245		
NTDB id 501	SM12261 RS00950 WP 004238896.1	L	G	M	V	G	F	V	S	V	G	V	L	L	A	L	T	F	Y	K	R	G	S	K	M	R	V	F	S	I	L	A	R	I	P	F	L	G	I	F	V	Q	T	Y	L	T	A	Y	Y	A	R	E	W	G	N	M	I	S	Q	G	M	E	L	T	Q	I	F	Q	I	M	Q	E	Q	S	Q	L	F	K	E	I	G	Q	D	M	A	245
NTDB id 22253	SAG RS03555 WP 223295889.1	L	L	L	L	A	V	V	L	I	F	S	L	I	F	Y	I	I	Q	K	R	L	S	R	I	K	V	A	C	F	L																																																							

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NTDB id 587 KW2 RS10850 WP 042211510.1	LGLKAGQNF	EQAVSHFSIFLPELSLMIEYGA	IKDKLGLLELS	VYADECWEQFFFSKIDRLMQLIQPLIFIFVALM	IVLLYAAML	LPI	333				
NTDB id 430 SGO RS09415 WP 012130941.1	QALQNGQEFS	DKIASYPFF	KKELSLIIIEYGEVKS	KLGLSELEIYALKTWEEFFGGRVNRTMNL	IQPLVFVFVALM	IVLLYAAML	LPL	336			
NTDB id 271 KZH43 RS09260 WP 074196785.1	QTLKNGREFS	QTIGTYPFF	RKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 230 SPD RS09890 WP 074196785.1	QTLKNGREFS	QTIGTYPFF	RKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 196 SPR RS09425 WP 074196785.1	QTLKNGREFS	QTIGTYPFF	RKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 161 SP RS10375 WP 074196785.1	QTLKNGREFS	QTIGTYPFF	RKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 529 SMSK321 RS09235 WP 080550783.1	QSLQNGREFS	QTIIATYPFF	KKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 501 SM12261 RS00950 WP 004238896.1	HALQNGQEFS	QTIGTYPFF	KKELSLIIIEYGEVKS	KLGLSELEIYAEKTWEAFFTRVNRTMNL	VQPLVFIFVALI	IVLLYAAML	MPM	330			
NTDB id 22253 SAG RS03555 WP 223295889.1	EGFLSGKAF	HQKVLDYP	PFFLTELSLMIEY	GQVKA	KLGTELDIYADEK	WEDFFT	KIARATQLIQPV	IFIFVALI	IVMIYAAML	LPI	339
NTDB id 395 FSA28 RS09400 WP 257638827.1	KALLSGQEF	HQKVLDYP	PFFLKELSLMIEY	GEVKS	KLGLNELEIYA	EETWEHFFAKL	KKATQFVQPL	IFVFVA	IVMIYAAML	LPI	335
NTDB id 386 SMU RS09030 WP 255262721.1	KALLSGQEF	HQKVLDYP	PFFLKELSLMIEY	GEVKS	KLGLNELEIYA	EETWEHFFAKL	KKATQFVQPL	IFVFVA	IVMIYAAML	LPI	335
consensus	***	*!***!*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

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NTDB id 587 KW2 RS10850 WP 042211510.1	YSNMGSGI	341
NTDB id 430 SGO RS09415 WP 012130941.1	YQNMEVHL	344
NTDB id 271 KZH43 RS09260 WP 074196785.1	YQNMEVNF	338
NTDB id 230 SPD RS09890 WP 074196785.1	YQNMEVNF	338
NTDB id 196 SPR RS09425 WP 074196785.1	YQNMEVNF	338
NTDB id 161 SP RS10375 WP 074196785.1	YQNMEVNF	338
NTDB id 529 SMSK321 RS09235 WP 080550783.1	YQNMEVNF	338
NTDB id 501 SM12261 RS00950 WP 004238896.1	YQNMEVNF	338
NTDB id 22253 SAG RS03555 WP 223295889.1	YQNMEILS	347
NTDB id 395 FSA28 RS09400 WP 257638827.1	YQNMEVNL	343
NTDB id 386 SMU RS09030 WP 255262721.1	YQNMEVNL	343
consensus	!***	



☒ non conserved
☒ similar
☒ ≥ 50% conserved