

NTDB id	587 KW2 RS10850 WP 042211510.1	MQTDLRLLRPKGKKLALIKQAKLIQLMGNLLNNGFNLGVEVINFLALSKLVEKEFVFKM	59
NTDB id	1130641 H0507 RS08700 WP 148148900.1	MPEKISKTI RLTPTGISSWKVWLNKDVSLRGISKGKKLKISSQQVKVIQIFKQLLKAGFTLTEI VAFLEERSHLLKEASLSLM	80
NTDB id	395 FSA28 RS09400 WP 257638827.1	MTFLQQDISLKEKHKKQKKLKIKQRKV IQLFNNLF TSGFNLTEIIDFL ERSHELLAEIYTKKM	62
NTDB id	386 SMU RS09030 WP 255262721.1	MTFLQQDISLKEKHKKQKKLKIKQRKV IQLFNNLF TSGFNLTEIIDFL ERSHELLAEIYTKKM	62
NTDB id	430 SGO RS09415 WP 012130941.1	MISFLQQDISILSKQKKKKLGT SKQKQVIELFNNLFSSGFHLAETVD FLGRSALLEKN YTVQM	63
NTDB id	271 KZH43 RS09260 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	230 SPD RS09890 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	196 SPR RS09425 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	161 SP RS10375 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	529 SMSK321 RS09235 WP 080550783.1	MDISQVFRLRKKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	501 SM12261 RS00950 WP 004238896.1	MDISQVFRLKRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
consensus		* ! * * * * * * * * * ! ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

NTDB id	587 KW2 RS10850 WP 042211510.1	HQGLSSGKSLSEILSLSFSKNVVTQLALVEVHGNLVGTMLQVELHLKKQLVKVKKLIEVATYPVVLLVFLIGIMWGLKN	139
NTDB id	1130641 H0507 RS08700 WP 148148900.1	KESLIRCDRLDQMLALVGFSDNIVTQISLADKHGNLLGSLTKIETYMLRMTKVRRKKIMEVATYPIILLGFLILIMLG LKN	160
NTDB id	395 FSA28 RS09400 WP 257638827.1	RQG LLNGLHLAEIMSSLGFSDDVVTQLALSEVHGNTQKSLLKIESYLN NLI LVKKKLVEVIT YP IILLIFLVVIMLG LKN	142
NTDB id	386 SMO RS09030 WP 255262721.1	RQGL LNGLHLAEIMSSLGFSDDVVTQLALSEVHGNTQKSLLKIESYLN NLI LVKKKLVEVIT YP IILLIFLVVIMLG LKN	142
NTDB id	430 SGU RS09415 WP 012130941.1	RQGLANGQA FSEIMASLGFSDAVVTQLSLAELHGNLSLALLKIEEYLDNLAKVKKKLEI VATYPMMLLGFVLIMIGLRN	143
NTDB id	271 KZH43 RS09260 WP 074196785.1	RVGLSQGKSFSEMME SLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLIMLG LRN	137
NTDB id	230 SPD RS09890 WP 074196785.1	RVGLSQGKSFSEMME SLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLIMLG LRN	137
NTDB id	196 SPR RS09425 WP 074196785.1	RVGLSQGKSFSEMME SLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLIMLG LRN	137
NTDB id	161 SP RS10375 WP 074196785.1	RVGLSQGKSFSEMME SLGCSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLIMLG LRN	137
NTDB id	529 SMSK321 RS09235 WP 080550783.1	RTDL SQGKSFSEMME SLGFSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLSIMLGRN	137
NTDB id	501 SM12261 RS00950 WP 004238896.1	RA GLSQGKSFSEMME SLGFSSAIVTQLSLAEVHGNLHLSLGKIEEYLDNLAKVKKKLEI VATYPLILLGFLLLIMLG LRN	137
consensus		* * ! ** ! ***** ! **** ! ! *** ! **** ! ! **** ***** ! **** ***** ! * ! ! ! * ! ! ! ! * ! ! ! ! *	

NTDB id 587 KW2 RS10850 WP 042211510.1	YLLPQLDKG...N	FATL	LI	NH	LPLV	FFSV	GA	LI	VL	LT	SL	SI	II	FK	HI	SALT	N	FT	FL	V	KV	PL	VSS	F	I	R	L	Y	L	T	A	Y	F	S	R	E	W	G	216																															
NTDB id 1130641 H0507 RS08700 WP 148148900.1	YLLPQLLEGDGKN	NW	AV	Q	LV	Q	I	F	P	Q	L	F	F	V	S	L	C	G	L	L	V	L	G	L	I	L	Y	L	W	V	K	R	Q	S	A	L	V	F	Y	R	R	M	A	K	I	P	I	G	Q	T	V	R	L	Y	T	A	Y	A	R	E	W	G	240							
NTDB id 395 FSA28 RS09400 WP 257638827.1	YLLPQL	E	K	...	G	N	F	A	T	R	L	I	S	N	F	P	I	L	F	L	G	C	C	F	F	I	L	V	G	I	F	T	F	F	S	R	K	I	S	R	L	H	L	I	G	F	C	S	H	L	P	F	V	G	K	Y	L	Q	L	Y	L	T	A	Y	A	R	E	W	G	218
NTDB id 386 SMU RS09030 WP 255262721.1	YLLPQL	E	R	...	G	N	F	A	T	R	L	I	S	N	F	P	I	L	F	L	G	C	C	F	F	I	L	V	G	I	F	T	F	F	S	R	K	I	S	R	L	H	L	I	G	F	C	S	H	L	P	F	A	G	K	Y	L	Q	L	Y	L	T	A	Y	A	R	E	W	G	218
NTDB id 430 SGO RS09415 WP 012130941.1	YLLPQL	L	S	...	G	N	F	A	T	R	L	I	G	H	L	F	I	F	L	T	V	L	M	L	G	L	T	G	A	I	Y	L	V	F	K	G	Q	K	R	I	P	V	S	F	L	A	R	P	F	V	G	S	F	V	R	I	Y	L	T	A	Y	A	R	E	W	G	219			
NTDB id 271 KZH43 RS09260 WP 074196785.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	V	L	A	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	A	R	E	W	G	213
NTDB id 230 SPD RS09890 WP 074196785.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	V	L	A	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	A	R	E	W	G	213
NTDB id 196 SPR RS09425 WP 074196785.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	V	L	A	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	A	R	E	W	G	213
NTDB id 161 SP RS10375 WP 074196785.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	V	L	A	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	A	R	E	W	G	213
NTDB id 529 SMSK321 RS09235 WP 080550783.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	L	L	T	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	A	R	E	W	G	213
NTDB id 501 SM12261 RS00950 WP 004238896.1	YLLPQL	D	S	...	S	N	I	A	T	Q	I	I	G	N	L	P	Q	I	F	L	G	M	V	G	L	V	S	V	L	A	L	A	L	T	F	Y																																		

logo

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NTDB id 395 FSA28 RS09400 WP 257638827.1
NTDB id 386 SMU RS09030 WP 255262721.1
NTDB id 430 SGO RS09415 WP 012130941.1
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
NTDB id 501 SM12261 RS00950 WP 004238896.1
consensus



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logo

NTDB id 587 KW2 RS10850 WP 042211510.1
NTDB id 1130641 H0507 RS08700 WP 148148900.1
NTDB id 395 FSA28 RS09400 WP 257638827.1
NTDB id 386 SMU RS09030 WP 255262721.1
NTDB id 430 SGO RS09415 WP 012130941.1
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
NTDB id 501 SM12261 RS00950 WP 004238896.1
consensus



341
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☒ non conserved
☒ similar
☒ ≥ 50% conserved