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NTDB id	587 KW2 RS10850 WP 042211510.1	MQTDLIRLLRPKGKKLALIKQAKLIQLMGNLNNGFNLGEVINFLALSKEVEKHFVFKMHQGLS	64
NTDB id	49374 SSAL RS00725 WP 118172207.1	MPVKISKAIRQPAGTSSWKAWLNKDISLKGISGKKKLKINQQLKVIIQLFKQLLKAGFTILTEIVAFLEERSHLLKESSLISLMKASIM	85
NTDB id	395 FSA28 RS09400 WP 257638827.1	MTFLQQDISLKEKHKKQKKLKIKKKRKVIQLFNNLFTSGFNLTETIDFLERSHLLAEIYTKKMRQGGL	67
NTDB id	386 SMU RS09030 WP 255262721.1	MTFLQQDISLKEKHKKQKKLKIKKKRKVIQLFNNLFTSGFNLTETIDFLERSHLLAEIYTKKMRQGGL	67
NTDB id	430 SGO RS09415 WP 012130941.1	MISFLQQDISILSKQKQKKLGTSGKQKVIEILFNNLFSSGFHLAETVDFLGRSALLEKNYVQQMRQGLA	68
NTDB id	271 KZH43 RS09260 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMVRVGLS	62
NTDB id	230 SPD RS09890 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMVRVGLS	62
NTDB id	196 SPR RS09425 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMVRVGLS	62
NTDB id	161 SP RS10375 WP 074196785.1	MDISQVFRLRRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMVRVGLS	62
NTDB id	529 SMSK321 RS09235 WP 080550783.1	MDISQVFRLKRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRTDLS	62
NTDB id	501 SM12261 RS00950 WP 004238896.1	MDISQVFRLKRKKLATAKQKNIIITLFNNLFSSGFHLVETISFLDRSALLDKQCVTQMRAGLS	62
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NTDB id 587 KW2 RS10850 WP 042211510.1	S	G	K	S	L	S	E	I	L	S	L	S	F	S	K	N	V	V	T	Q	L	A	L	V	E	V	H	G	N	L	V	G	T	M	Q	L	V	E	L	H	L	K	K	Q	L	K	V	K	K	K	L	I	E	V	A	T	Y	P	V	V	L	L	V	F	L	I	G	I	M	W	G	L	K	N	Y	L	L	P	Q	L	D	K	G	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 49374 SSAL RS00725 WP 118172207.1	R	G	D	R	L	D	Q	M	F	A	A	V	G	F	S	D	N	I	V	T	Q	I	A	L	A	D	K	H	G	N	L	L	G	S	L	T	K	I	E	T	Y	M	L	R	M	T	K	V	R	K	K	L	M	E	V	A	T	Y	P	I	L	L	G	F	L	I	L	M	L	G	L	K	N	Y	L	L	P	Q	L	L	E	G	D	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 395 FSA28 RS09400 WP 257638827.1	N	G	L	H	L	A	E	I	M	S	S	L	G	F	S	D	D	V	V	T	Q	L	A	L	S	E	V	H	G	N	T	Q	K	S	L	L	K	I	E	S	Y	L	N	N	L	I	L	V	K	K	K	L	V	E	V	I	T	Y	P	I	I	L	I	F	L	V	V	I	M	L	G	L	K	N	Y	L	L	P	Q	L	D	K	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 386 SMU RS09030 WP 255262721.1	N	G	L	H	L	A	E	I	M	S	S	L	G	F	S	D	D	V	V	T	Q	L	A	L	S	E	V	H	G	N	T	Q	K	S	L	L	K	I	E	S	Y	L	N	N	L	I	L	V	K	K	K	L	V	E	V	I	T	Y	P	I	I	L	I	F	L	V	V	I	M	L	G	L	K	N	Y	L	L	P	Q	L	D	K	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 430 SGO RS09415 WP 012130941.1	N	G	Q	A	F	S	E	I	M	S	L	G	F	S	D	D	A	V	V	T	Q	L	S	L	A	E	L	H	G	N	L	S	L	L	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	M	M	L	L	G	F	L	I	M	I	T	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 271 KZH43 RS09260 WP 074196785.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	C	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 230 SPD RS09890 WP 074196785.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	C	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 196 SPR RS09425 WP 074196785.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	C	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 161 SP RS10375 WP 074196785.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	C	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 529 SMSK321 RS09235 WP 080550783.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	F	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	S	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 501 SM12261 RS00950 WP 004238896.1	Q	G	K	S	F	S	E	M	M	E	S	L	G	F	S	S	A	I	V	T	Q	L	S	L	A	E	V	H	G	N	L	H	L	S	L	G	K	I	E	E	Y	L	D	N	L	A	K	V	K	K	K	L	I	E	V	A	T	Y	P	L	I	L	G	F	L	L	I	M	L	G	L	R	N	Y	L	L	P	Q	L	D	S	.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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NTDB id 587 KW2 RS10850 WP 042211510.1	..N N F A T L L I N H L P L V F F S V G A L I V L L T S L S I 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 Q V E L R Q I E L	231
NTDB id 49374 SSAL RS00725 WP 118172207.1	G K E N W A V Q L V Q I F P Q L F F V T L C G L L V L S L I L Y L V W K R Q S A L V F Y Q R M A K I P F I Q G T V R L Y T T A Y Y A R E W G N L I G Q G I D L L D L V A L	255
NTDB id 395 FSA28 RS09400 WP 257638827.1	..G N F A T R L I S N F P I L F L L G C C F I L 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 Y A R E W G N L I G Q G V E M A Q I V R L	233
NTDB id 386 SMU RS09030 WP 255262721.1	..G N F A T R L I S N F P I L F L L G C C F I L 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 Y A R E W G N L I G Q G V E M A Q I V R L	233
NTDB id 430 SGO RS09415 WP 012130941.1	..Q N F A T Q L I G H L P T I F L L T V L M L L G T G A I Y L V F K G Q K R I P V S F L A R L P F V G S F V R I L T A Y Y A R E W G N M I G Q G L E S Q I F Q I	234
NTDB id 271 KZH43 RS09260 WP 074196785.1	..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 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	228
NTDB id 230 SPD RS09890 WP 074196785.1	..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 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	228
NTDB id 196 SPR RS09425 WP 074196785.1	..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 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	228
NTDB id 161 SP RS10375 WP 074196785.1	..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 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	228
NTDB id 529 SMSK321 RS09235 WP 080550783.1	..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 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	228
NTDB id 501 SM12261 RS00950 WP 004238896.1	..S N I A T Q I I G N L P Q I F 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	228
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NTDB id 529 SMSK321 RS09235 WP 080550783.1
NTDB id 501 SM12261 RS00950 WP 004238896.1
consensus



☐ non conserved
☒ similar
☒ ≥ 50% conserved