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NTDB id 617 LCA RS06480 WP 011375001.1	.MST	E	K	L	T	T	L	K	H	C	A	K	Q	R	V	Q	D	I	Y	F	P	T	I	G	G	W	R	L	T	E	R	R	Q	S	L	V	T	N	Q	E	L	D	K	P	T	G	T	R	Y	I	N	L	K	Y	M	A	G	M	D	I	S	E	T	R	R	A	Q	T	G	R	S	E		79							
NTDB id 586 KW2 RS10855 WP 011836048.1	..	M	V	Q	K	K	A	Q	E	L	I	Q	K	A	I	E	M	E	A	S	D	I	Y	L	T	A	S	G	N	L	Y	K	I	Y	I	R	Q	Q	L	G	R	T	L	E	E	V	N	Q	E	I	G	L	A	L	L	T	H	F	K	F	L	A	G	M	N	T	G	E	R	R	V	Q	L	G	A	C	W		78		
NTDB id 429 SGO RS09420 WP 012130942.1	..	M	V	Q	K	I	A	Q	E	I	V	R	Q	A	K	E	E	C	A	Q	D	I	Y	F	V	P	K	D	D	C	Y	E	L	Y	M	R	I	G	D	E	R	R	F	I	Q	T	Y	D	F	D	Q	L	A	A	V	I	S	H	F	K	F	L	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78
NTDB id 500 SM12261 RS00945 WP 000249545.1	..	M	V	Q	E	I	A	Q	E	I	R	S	A	R	K	K	G	A	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	C	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 270 KZH43 RS09265 WP 000249564.1	..	M	V	Q	E	I	A	Q	E	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	S	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 229 SPD RS09895 WP 000249564.1	..	M	V	Q	E	I	A	Q	E	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	S	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 195 SPR RS09430 WP 000249564.1	..	M	V	Q	E	I	A	Q	E	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	S	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 160 SP RS10380 WP 000249564.1	..	M	V	Q	E	I	A	Q	E	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	S	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 584 DLJ51 RS00890 WP 019777327.1	M	V	E	V	Q	E	L	G	K	E	I	R	Q	A	V	E	E	Q	A	D	I	Y	L	L	P	K	P	A	V	Y	K	I	Y	L	R	F	G	E	K	R	H	L	I	Q	T	C	P	P	E	Q	A	A	G	I	S	H	F	K	F	L	A	G	M	N	V	G	E	K	R	R	A	Q	L	G	A	C	D		80		
NTDB id 1140534 DQN21 RS00645 WP 077495921.1	..	M	I	Q	E	K	A	K	Q	L	I	K	E	A	V	E	V	N	A	Q	D	I	Y	L	P	R	E	D	C	Y	E	V	Y	Q	R	V	G	D	Q	R	Q	V	F	D	Y	F	E	L	E	Q	M	T	S	L	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 385 SMU RS09035 WP 002263435.1	..	M	V	Q	K	L	G	R	K	I	I	A	E	A	V	Q	N	K	A	Q	D	I	Y	L	P	K	K	E	S	Y	E	L	Y	M	R	I	C	N	E	R	R	F	I	D	V	Y	D	H	H	F	M	A	N	L	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	
NTDB id 394 FSA28 RS09405 WP 002291652.1	..	M	V	Q	K	L	G	R	K	I	I	A	E	A	V	Q	N	K	A	Q	D	I	Y	L	P	K	K	E	S	Y	E	L	Y	M	R	I	C	N	E	R	R	F	I	D	V	Y	D	H	H	F	M	A	N	L	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D		78	

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NTDB id 617 LCA RS06480 WP 011375001.1	L	Q	L	A	D	.	Q	T	I	Y	L	R	L	A	T	V	G	D	F	L	N	R	E	S	L	V	I	R	F	T	Y	P	I	G	A	I	Y	H	C	D	D	Q	I	I	A	Q	L	T	Q	M	S	R	Q	S	G	L	I	L	F	A	G	P	T	G	S	G	K	T	T	S	L	Y	H	L	A	Q	S	M		158		
NTDB id 586 KW2 RS10855 WP 011836048.1	Y	E	L	E	G	S	S	A	K	R	L	R	L	S	T	V	G	D	F	E	G	N	E	S	L	V	I	R	L	L	H	D	E	E	T	E	L	K	F	W	F	D	.	D	K	.	L	Q	D	F	R	C	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	S	L	M	F	D	L	A	R	H	F		155			
NTDB id 429 SGO RS09420 WP 012130942.1	Y	R	Y	D	D	.	K	E	T	S	I	R	L	S	T	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	H	D	E	E	T	E	L	K	F	W	F	T	.	H	F	P	E	L	R	E	K	F	K	D	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	T	L	M	H	Q	L	A	Q	L	K	F		156
NTDB id 500 SM12261 RS00945 WP 000249545.1	Y	E	Y	D	Q	.	K	M	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F		156	
NTDB id 270 KZH43 RS09265 WP 000249564.1	Y	A	Y	D	H	.	K	I	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	S	K	S	L	F		156	
NTDB id 195 SPR RS09430 WP 000249564.1	Y	A	Y	D	H	.	K	I	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	S	K	S	L	F		156	
NTDB id 160 SP RS10380 WP 000249564.1	Y	A	Y	D	H	.	K	I	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	S	K	S	L	F		156	
NTDB id 584 DLJ51 RS00890 WP 019777327.1	Y	A	F	A	D	G	E	T	A	A	L	R	L	S	T	V	G	D	Y	Q	G	R	E	S	L	V	I	R	L	L	F	D	R	K	R	E	L	K	F	W	F	D	.	G	L	N	A	L	L	P	K	I	I	G	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	T	L	M	Y	E	L	V	S	R	K	Y		159
NTDB id 1140534 DQN21 RS00645 WP 077495921.1	Y	Q	F	A	D	E	E	E	I	S	L	R	L	S	S	V	G	D	Y	R	G	R	E	S	L	V	I	R	L	L	Y	S	G	R	H	D	L	Q	Y	W	F	D	.	G	M	K	N	I	L	E	A	I	D	S	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	T	L	M	Y	Q	L	V	R	E	K	F		157
NTDB id 385 SMU RS09035 WP 002263435.1	Y	S	Y	D	E	G	K	V	I	S	L	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	F	S	G	R	H	D	L	K	F	W	F	N	.	S	M	D	L	I	L	N	E	I	K	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F		157	
NTDB id 394 FSA28 RS09405 WP 002291652.1	Y	S	Y	D	E	G	K	V	I	S	L	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	F	S	G	R	H	D	L	K	F	W	F	N	.	S	M	D	L	I	L	N	E	I	K	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F		157	

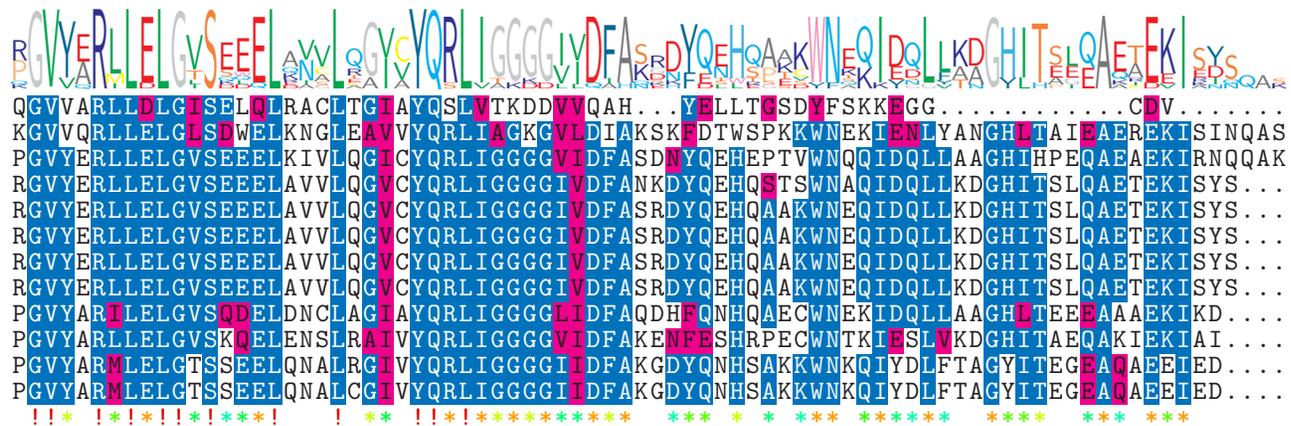
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NTDB id 586 KW2 RS10855 WP 011836048.1	S	N	A	Q	V	I	T	I	E	D	P	V	E	L	I	D	S	D	F	T	Q	L	Q	V	N	D	V	I	G	N	S	Y	E	L	I	K	L	S	L	R	H	R	P	D	L	L	I	V	G	E	I	R	D	Q	T	A	R	A	V	I	R	A	S	L	T	G	Y	T	V	F	S	T	I	H	A	S	V		235	
NTDB id 429 SGO RS09420 WP 012130942.1	K	G	Q	Q	V	M	S	I	E	D	P	V	E	I	K	Q	D	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I		236	
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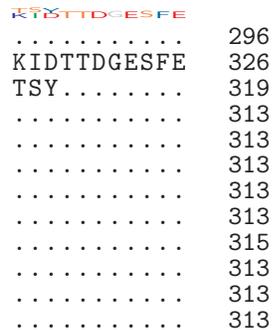
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 NTDB id 160 SP RS10380 WP 000249564.1
 NTDB id 584 DLJ51 RS00890 WP 019777327.1
 NTDB id 1140534 DQN21 RS00645 WP 077495921.1
 NTDB id 385 SMU RS09035 WP 002263435.1
 NTDB id 394 FSA28 RS09405 WP 002291652.1
 consensus



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NTDB id 617 LCA RS06480 WP 011375001.1
 NTDB id 586 KW2 RS10855 WP 011836048.1
 NTDB id 429 SGO RS09420 WP 012130942.1
 NTDB id 500 SM12261 RS00945 WP 000249545.1
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 NTDB id 229 SPD RS09895 WP 000249564.1
 NTDB id 195 SPR RS09430 WP 000249564.1
 NTDB id 160 SP RS10380 WP 000249564.1
 NTDB id 584 DLJ51 RS00890 WP 019777327.1
 NTDB id 1140534 DQN21 RS00645 WP 077495921.1
 NTDB id 385 SMU RS09035 WP 002263435.1
 NTDB id 394 FSA28 RS09405 WP 002291652.1
 consensus



296
 326
 319
 313
 313
 313
 313
 315
 313
 313
 313

X non conserved
 X similar
 X ≥ 50% conserved