

logo

NTDB	id	617	LCA	RS06480	WP	011375001.1	.MSTEEKLTTLLKHCAKQRVQDLYFTPTIGGWRLTERRQSLVTNQELDKPTGTRYLNHLKYMGMDISERRAQTGRSELQLAD	84
NTDB	id	586	KW2	RS10855	WP	011836048.1	..MVQKKKAQELIQKAIEMEASDIYILTASGNLYKIYIRQQLGRTLTIEEVNQBEIGLALLTHFKFLAGMNTGERRRVQLGACWYELEG	83
NTDB	id	82710	H7674	RS00650	WP	011284420.1	..MVQAALAKAILAKAEQVQAQDIYILPRADQDYDLFLRIGDERRLVDVYQSDRMAPLISHFKFVAGMTVGKEKRCQVGSCDYKLSK	83
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	MVEVQELGKELIRQAEEEAQADIYILLPKPAVKIYLRFCEGKRHLITQCPEQAAGLISHFKFLAGMNVGEKRRSQLGACDYAFAD	85
NTDB	id	385	SMU	RS09035	WP	002263435.1	..MVQKLGRKIIIAEAVQNKAQDIYIIPKKESEYELMYRICNERRFIDVYDHFFMANLISHFKFVAGMNVGEKRRSQLGSCDYSYDE	83
NTDB	id	394	FSA28	RS09405	WP	002291652.1	..MVQKLGRKIIIAEAVQNKAQDIYIIPKKESEYELMYRICNERRFIDVYDHFFMANLISHFKFVAGMNVGEKRRSQLGSCDYSYDE	83
NTDB	id	429	SGO	RS09420	WP	012130942.1	..MVQKIIAQAIVRQAKEECAQDIYFVPKDCCYELYMRIGDERRFITQTYDFDQLAAVISHFKFILAGMNVGEKRRSQLGSCDYRYDD	83
NTDB	id	500	SM12261	RS00945	WP	000249545.1	..MVQEIAQEIIIRSARKKGAQDIYFVPKLDAYELHMRVGDERCKIGSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYEYD	83
NTDB	id	270	KZH43	RS09265	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYYAH	83
NTDB	id	229	SPD	RS09895	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYYAH	83
NTDB	id	195	SPR	RS09430	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYYAH	83
NTDB	id	160	SP	RS10380	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYYAH	83
consensus							***** * !! ! * * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * * ! * * * *	

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NTDB	id	617	LCA	RS06480	WP	011375001.1	.QTTIYLRRLATVGDFLNR	ESLVIRF	IYP	IGAIY	H	CCDD	Q	IL	LAQ	L	TQMS	H	QS	GL	I	LFAGPT	T	SGSKTT	S	LYH	L	AQ	QS	M	S	K	M	V	V	A	I	E	D	168																																																		
NTDB	id	586	KW2	RS10855	WP	011836048.1	SSAKRLRLSTVGDFEGN	ESLVIRLLHD	QKQ	E	LF	WFD	.	DK	.	L	QDFRCK	R	GLYLF	FAGP	V	SGSKT	S	LMF	D	L	A	R	H	F	S	N	A	Q	V	I	T	I	E	E	165																																																	
NTDB	id	82710	H7674	RS00650	WP	011284420.1	D	K	Q	L	S	R	L	S	S	V	G	D	Y	R	G	Q	E	S	L	V	I	R	L	L	H	Q	N	K	S	V	H	Y	W	F	D	.	G	I	T	K	V	A	N	Q	V	G	G	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	Y	Q	L	I	S	S	Y	H	Q	E	A	Q	V	T	S	I	E	D	167
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	G	E	T	A	L	R	L	S	T	V	G	D	Y	Q	G	R	E	S	L	V	I	R	L	F	D	R	K	E	L	K	F	W	F	D	.	G	I	N	A	L	P	K	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	V	P	D	S	Q	I	T	I	E	D	169				
NTDB	id	385	SMU	RS09035	WP	002263435.1	G	K	V	I	S	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	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	E	T	K	Q	V	I	T	I	E	D	167	
NTDB	id	394	FSA28	RS09405	WP	002291652.1	G	K	V	I	S	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	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	E	T	K	Q	V	I	T	I	E	D	167	
NTDB	id	429	SGO	RS09420	WP	012130942.1	.	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	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	K	Q	Q	V	M	S	I	E	D	166
NTDB	id	500	SM12261	RS00945	WP	000249545.1	.	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	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	K	Q	Q	V	M	S	I	E	D	166		
NTDB	id	270	KZH43	RS09265	WP	000249564.1	.	K	I	A	S	L	R	L																																																																												

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NTDB	id	617	LCA	RS06480	WP	011375001.1	P	I	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	C	H	L	V	L	S	T	I	H	A	R	S	T	Q	G	V	V	A	R	L	L	D	L	G	I	S	E	L		253	
NTDB	id	586	KW2	RS10855	WP	011836048.1	P	V	E	L	I	D	S	D	F	I	Q	L	Q	V	N	D	V	I	G	N	S	Y	D	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	K	G	V	Q	V	Q	R	L	L	E	L	G	L	S	D	W		250
NTDB	id	82710	H7674	RS00650	WP	011284420.1	P	V	E	I	K	N	H	Q	I	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	V	G	E	I	R	D	S	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	V	R	L	L	E	L	G	V	T	K	A		252	
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	H	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	R	E	T	A	Q	A	V	I	R	A	S	L	T	G	I	R	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	L	E	L	G	V	S	Q	D		254		
NTDB	id	385	SMU	RS09035	WP	002263435.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	M	L	E	L	G	T	S	S	E		252	
NTDB	id	394	FSA28	RS09405	WP	002291652.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	M	L	E	L	G	T	S	S	E		252	
NTDB	id	429	SGO	RS09420	WP	012130942.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	V	N	D	I	G	L	T	Y	E	S	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	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E		251		
NTDB	id	500	SM1261	RS00945	WP	000249545.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q																																																																									

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NTDB id 617 LCA RS06480 WP 011375001.1	QLRACLTGIAVQSLVTKDDVVQA...HYELLTGSDYFSKKEGGCDV.....	296
NTDB id 586 KW2 RS10855 WP 011836048.1	ELKNGLEAVVYQRLIAGKGVLDIAKSKFDTWSPKKWNEKTENLYANGHLTAIEEAEREKISINQASKIDTTDGESFE	326
NTDB id 82710 H7674 RS00650 WP 011284420.1	ELSNCLALIAVQRLINGGALIDSTQNEFEYYSNNWNQQIDQLLEAGHLNPKQAKLEKII.....	312
NTDB id 584 DLJ51 RS00890 WP 019777327.1	ELDNCLAGIAVQRLIGGGGLIDFAQDHFQNHQAECWNEKIDQLLAAGHLTEEEA AAAEKIKD.....	315
NTDB id 385 SMU RS09035 WP 002263435.1	ELQNALRGIVYQRLIGGGGIIDFAKGDYQNHS AKKWNKQIYDLFTAGYITEGEAQAE EIED.....	313
NTDB id 394 FSA28 RS09405 WP 002291652.1	ELQNALCGIVYQRLIGGGGIIDFAKGDYQNHS AKKWNKQIYDLFTAGYITEGEAQAE EIED.....	313
NTDB id 429 SGO RS09420 WP 012130942.1	ELKIVLQGICYQRLIGGGGVIDFASDNYQEHEPTVWNQQIDQLLAAGHIHPEQAEAEKIRNQQAKTSY.....	319
NTDB id 500 SM12261 RS00945 WP 000249545.1	ELAVVLQGVICYQRLIGGGGIVDFANKDYQEHQSTSWNAQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 270 KZH43 RS09265 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 229 SPD RS09895 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 195 SPR RS09430 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 160 SP RS10380 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
consensus	*! ! ** !*!* **** ** * ** * ** * ** * ** * ** *	

- non conserved
- similar
- ≥ 50% conserved