

[illegible][illegible]

NTDB	id	617	LCA	RS06480	WP	011375001.1	P	T	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	N	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	G	H	L	V	L	S	T	I	H	A	S	T	Q	G	V	A	R	L	L	D	L	G	T	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	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	V	Q	R	L	L	E	L	C	L	S	D	W		250
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	Y	I	R	V	F	S	T	I	H	A	S	I	P	G	V	Y	A	R	L	E	L	G	V	S	E	D		254	
NTDB	id	385	SMU	RS09035	WP	002263435.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	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	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	L	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	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	S	I	P	G	V	Y	A	R	M	L	E	L	G	T	S	S	E		252	
NTDB	id	58607	TL13	RS00780	WP	015646270.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	A	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	A	E	T	A	R	A	V	I	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	S	I	P	G	V	Y	A	R	M	L	E	L	C	T	S	P	E		251
NTDB	id	429	SGO	RS09420	WP	012130942.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	T	I	G	L	T	Y	E	S	L	I	K	L	S	L	R	H	R	P	D	L	L	I	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	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	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	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	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E		251	
NTDB	id	270	KZH43	RS09265	WP	000249564.1	P	V																																																																																				

NTDB id	617	LCA RS06480 WP 011375001.1	QLRACLTGIAVQSLVTKDDVVQAHA...YELLTGSDYFSKKE.....GGCDV.....	296
NTDB id	586	KW2 RS10855 WP 011836048.1	ELKNGLAENVYQRRLIAGKGVLIDIAKSKFDTWSPKKWNEKITENLYANGHLTAIEAREKTSINQASKIDTTDGESFE	326
NTDB id	584	DLJ51 RS00890 WP 019777327.1	ELDNCLAGIAVQRLIGGGGLIDFAKDHFQNHQAECKWEKIDQLLAAGHLETEEAEEAKKID	315
NTDB id	385	SMU RS90035 WP 002263435.1	ELQNALRGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIIDLFITAGYTEGEAQAEETED	313
NTDB id	394	FSA28 RS09405 WP 002291652.1	ELQNALCGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIIDLFITAGYTEGEAQAEETED	313
NTDB id	58607	TL13 RS00780 WP 015646270.1	ELNNALQGIAVQRLIGGGGVVDFAKGNYNHSAADRWNAQIDRLFAGHSLSRQAETEKIALLGSPA	316
NTDB id	429	SGO RS09420 WP 012130942.1	ELKIVLQGCICYQRLIGGGGVVIDFASNDYQEHEPTVWQQIDQLLAAGHIHPQEAAEKIRNQAKTSY	319
NTDB id	500	SM12261 RS00945 WP 000249545.1	ELAVVLQGVVCYQRLIGGGGIVDFANKDYQEHQSTSWNAQIDQLLKDGHITSLQAETEKISYS	313
NTDB id	270	KZH43 RS09265 WP 000249564.1	ELAVVLQGVVCYQRLIGGGGIVDFASRDYQEHQAACKWNEQIDQLLKDGHITSLQAETEKISYS	313
NTDB id	229	SPD RS09895 WP 000249564.1	ELAVVLQGVVCYQRLIGGGGIVDFASRDYQEHQAACKWNEQIDQLLKDGHITSLQAETEKISYS	313
NTDB id	195	SPR RS09430 WP 000249564.1	ELAVVLQGVVCYQRLIGGGGIVDFASRDYQEHQAACKWNEQIDQLLKDGHITSLQAETEKISYS	313
NTDB id	160	SP RS10380 WP 000249564.1	ELAVVLQGVVCYQRLIGGGGIVDFASRDYQEHQAACKWNEQIDQLLKDGHITSLQAETEKISYS	313
consensus			*! !*** !!*!* **** * * * * * * * * *	

-  non conserved
-  similar
-  $\geq 50\%$ conserved