

NTDB id 1197	PSJM300 03940	AFN76866.1	MKAQ	M	Q	K	G	F	T	L	I	E	L	M	I	V	V	A	I	G	I	L	A	A	I	L	P	A	Y	Q	D	Y	T	V	R	S	N	A	A	A	A	L	A	E	I	T	P	G	K	I	G	F	E	Q	A	I	N	E	G	K	T	P	S	L	T	S	T	D	E	G	73	
NTDB id 1204	PSJM300 03935	AFN76865.1	MKPV	K	S	S	C	R	G	F	S	L	I	E	L	M	I	V	V	A	I	G	I	L	A	A	I	L	P	A	Y	Q	N	Y	T	V	R	S	T	A	A	S	A	L	A	E	I	T	P	K	A	A	F	E	Q	A	I	S	E	G	H	T	P	S	L	V	S	S	L	P	G	75
NTDB id 1365	NTHI RS01955	WP 011271973.1	..MKLT	T	Q	Q	T	L	K	K	G	F	T	L	I	E	L	M	I	V	I	A	I	A	I	L	T	I	A	I	P	S	Y	Q	N	Y	T	K	K	A	V	S	E	L	L	Q	A	S	A	P	Y	K	A	D	V	E	L	C	V	S	T	N	E	T	T	N	C	T	..	G	75	
NTDB id 1354	HI 0299 AAC21963.1		..MKLT	T	L	Q	T	L	K	K	G	F	T	L	I	E	L	M	I	V	I	A	I	A	I	L	T	I	A	I	P	S	Y	Q	N	Y	T	K	K	A	V	S	E	L	L	Q	A	S	A	P	Y	K	A	D	V	E	L	C	V	S	T	N	E	T	T	S	C	T	..	G	75	
NTDB id 1191	AAC28468.1	484..945()	MLKK	V	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	I	G	I	L	A	A	I	L	P	A	Y	Q	D	Y	T	A	R	A	Q	A	T	E	G	F	K	A	T	A	G	L	Q	T	D	L	G	A	W	R	A	D	R	G	S	F	P	N	A	A	L	V	A	G	74	
NTDB id 1109	OK783 RS10670	WP 157147416.1	MNTL	V	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	L	P	A	Y	Q	D	Y	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	T	E	Y	Y	L	N	H	G	I	W	P	K	D	N	T	S	A	C	V	73
NTDB id 1119	NGFG RS11465	WP 017147169.1	MNTL	V	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	L	P	A	Y	Q	D	Y	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	T	E	Y	Y	L	N	H	G	K	W	P	E	N	N	T	S	A	C	V	73
NTDB id 1424	RS RS02795	WP 011000517.1	MKSMRHLNKR	V	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	L	P	A	Y	Q	D	Y	T	V	R	A	R	V	T	E	G	L	S	L	A	A	Q	K	A	L	S	E	N	A	N	A	Q	S	D	L	S	V		74								
NTDB id 1002	ACIAD RS15100	WP 004923779.1	MNA	V	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	I	G	I	L	A	A	I	L	P	A	Y	T	D	Y	T	V	R	A	R	V	S																																	

NTDB	id	1197	PSJM300	03940	AFN76866.1	YIGITD.....	S	TSYCDV	D	L	..	DTAADG	H	I	E	C	T	A	K	G	.	G	N	A	G	K	F	D	G	K	T	T	I	L	N	R		T	A	D	G	E	W	S	C	A	S	T	.	128																										
NTDB	id	1204	PSJM300	03935	AFN76865.1	FIGIGA.....	S	TNYCTV	T	L	..	IATATG	S	I	T	C	T	T	Q	N	.	G	M	P	D	R	F	N	G	K	T	T	I	I	A	R		T	T	D	G	L	W	D	C	T	S	D	.	130																										
NTDB	id	1365	NTHI	RS01955	WP 011271973.1	KNGIAA...	D	I	T	T	A	K	G	Y	V	K	S	V	T	...	T	S	N	G	A	I	T	V	K	G	D	G	T	L	A	N	M	...	E	Y	I	L	Q		A	T	G	N	A	A	T	G	.	132																						
NTDB	id	1354	HAI	0299	AAC21963.1	KNGIAA...	D	I	K	T	A	K	G	Y	V	A	S	V	I	...	T	Q	S	G	A	I	T	V	K	N	G	T	L	A	N	M	...	E	Y	I	L	Q		A	K	G	N	A	A	A	G	V	T	W	T	T	C	K	.	132																
NTDB	id	1191	AAC28468.1	484..945()	NVIFDS...	A	N	G	L	D	G	K	Y	F	A	P	G	G	V	T	V	.	T	P	D	T	G	A	I	N	I	A	F	D	A	.	G	A	...	N	A	G	K	T	M	T	I	T	P	T	V		I	A	A	S	G	Q	I	S	T	W	T	C	A	P	G	.	138							
NTDB	id	1109	OK783	RS10670	WP 157147416.1	ASA.ST....	.	I	K	G	K	Y	V	Q	K	V	E	...	V	A	K	G	V	V	T	A	Q	M	A	S	T	G	V	N	K	E	I	Q	D	K	K	L	S	L		W	A	K	R	Q	D	G	S	V	K	W	F	C	G	Q	P	V	.	131												
NTDB	id	1119	NGFG	RS11465	WP 017147169.1	ASPPTD....	.	I	K	G	K	Y	V	K	V	E	...	V	K	N	G	V	V	T	A	M	L	S	S	G	V	N	N	E	I	K	G	K	K	L	S	L		W	G	R	R	E	N	G	S	V	K	W	F	C	G	Q	P	V	.	132														
NTDB	id	1424	RS	RS02795	WP 011000517.1	G....S...	.	S	V	F	T	P	T	K	N	V	A	N	T	.	A	G	T	G	T	G	T	V	P	G	Q	I	T	V	T	T	...	T	A	...	A	G	G	T	L	A	L	V	P	T	A	A	G	T	A	L	P	V	S	S	A	P	S	C	P	I	M	K	T	C	Y	A	Q	N	.	142
NTDB	id	1002	ACIAD	RS15100	WP 004923779.1	SSCVGVQEISASNA	T	N	V	A	T	N	A	T	C	G	A	S	...	A	G	I	I	V	T	M	D	.	T	T	K	...	A	G	G	A	N	I	T	L	T	P		T	Y	A	S	A	G	A	V	T	W	K	C	T	T	.	135																	
NTDB	id	358410	E5843	RS11900	WP 141066024.1	A.....	G	I	T	S	Q	T	N	V	A	S	V	T	V	...	A	N	G	...	V	I	T	V	V	T	R	A	T	G	A	...	T	V	E	P	T	L	V	F	T	P	T		Q	A	D	L	N	A	P	I	T	W	V	C	T	H	S	.	129											
NTDB	id	1274	LPP	RS09530	WP 011214168.1	G.....	.	Y	V	S	P	A	A	T	P	N	V	A	S	I	A	T	.	G	A	N	G	...	V	I	T	I	T	Y	T	A	A	...	A	G	G	T	I	V	M	T	P		T	L	Q	A	N	G	D	V	T	W	T	C	T	G	G	.	123											
NTDB	id	1258	GC085	RS09745	WP 014844212.1	G.....	.	Y	V	S	P	A	A	T	P	N	V	Q	S	I	A	T	.	G	A	N	G	...	V	I																																														

NTDB id 1197	PSJM300 03940	AFN76866.1	.....	LD	AKYK	PK	CS	.....	139
NTDB id 1204	PSJM300 03935	AFN76865.1	.....	LD	SR	YK	PK	KL	141
NTDB id 1365	NTHI RS01955	WP 011271973.1	.....	G	T	D	A	S	149
NTDB id 1354	HI 0299 AAC21963.1	.....	G	T	D	A	S	L	149
NTDB id 1191	AAC28468.1 484..945( )	.....	A	A	N	G	I	E	153
NTDB id 1109	OK783 RS10670	WP 157147416.1	TRTGDND	T	V	A	D	A	164
NTDB id 1119	NGFG RS11465	WP 017147169.1	TRADDDT	V	A	D	A	K	166
NTDB id 1424	RS RS02795	WP 011000517.1	KAQAASS	V	A	P	S	G	168
NTDB id 1002	ACIAD RS15100	WP 004923779.1	.....	S	D	K	K	Y	147
NTDB id 358410	E5843 RS11900	WP 141066024.1	.....	T	G	E	A	K	150
NTDB id 1274	LPP RS09530	WP 011214168.1	.....	T	L	L	A	K	136
NTDB id 1258	GC085 RS09745	WP 014844212.1	.....	T	L	L	A	K	136
consensus					****	!	*	**	

 non conserved
 similar
 $\geq 50\%$ conserved