

NTDB	id	617	LCA	RS06480	WP	011375001.1	.MSTEEKLTTLLKHCAKQRVQDLYFTPTIGGWRLTERRQS D LVTNQELDKP	TGTRYLNRLKYMAGMDISETTRAQTGRSELQLAD	84
NTDB	id	586	KW2	RS10855	WP	011836048.1	..MVQKKAAQELIQKAIEMEASDIYLIASGNLYKIYIRQQLGRTLT	EENQEIGLALLTHFKFLAGMNTEGERRVVLGCWVELEEG	83
NTDB	id	24461	M28	RS00660	WP	011284420.1	..MVQALAKAILAKAEAVQAADIYLPRADQYDLFLRIGDERRLVDV	YQSDRMAPLISHFKFVAGMTVGCKRRQCVGSCDYKLKS	83
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	MVEVQELGKEGLIRQAEEEAQDIYILLPKPAVKIYLRFFGECKRHIL	ITQCPEEQAAGLISHFKFAGMNVGEKRRAQLGCADYAFAAD	85
NTDB	id	385	SMU	RS09035	WP	002663435.1	..MVQKLGRKIIAEEAVQNKAQDIYIIPKKESEYELYMRIGNERRFI	DDVYDHMFMANLISHFKFVAGMNVGEKRRSQLGSCDSYDE	83
NTDB	id	394	FSA28	RS09405	WP	002291652.1	..MVQKLGRKIIAEEAVQNKAQDIYIIPKKESEYELYMRIGNERRFI	DDVYDHMFMANLISHFKFVAGMNVGEKRRSQLGSCDSYDE	83
NTDB	id	429	SGO	RS09420	WP	012130942.1	..MVQKIAAQAIVRQAKEECAQDIYFVPKDCCYELYMRIGDERRFI	QTYDFDQLAAVISHFKFLAGMNVGEKRRSQLGSCDYRYDD	83
NTDB	id	500	SM1261	RS00945	WP	000249545.1	..MVQEIAQEIIIRSARKKGAQDIYFVPKLDAYELHMRVGDERCKI	GSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYEDQ	83
NTDB	id	270	KZH43	RS09265	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKI	GSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYAYDH	83
NTDB	id	229	SPD	RS09895	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKI	GSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYAYDH	83
NTDB	id	195	SPR	RS09430	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKI	GSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYAYDH	83
NTDB	id	160	SP	RS10380	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKI	GSYDFEFKFAAVISHFKFVAGMNVGEKRRSQLGSCDYAYDH	83
consensus							***** * **** ! ***** *	*****	83

NTDB	id	617	LCA	RS06480	WP	011375001.1	.QTIYLRRLATVGDFLNR	ESLVIRFI	YPIGAIYH	CDDQ	QILAQ	LTQMS	RQSGLI	LFAGPT	GSGKTT	SLYH	LAQQSMS	AKM	VVAIED	168
NTDB	id	586	KW2	RS10855	WP	011836048.1	SSAKRLRLSTVGDFEGN	ESLVIRLLHD	QKQ	LELFWFD	.DK.	LQDFRCK	RGLYLF	AGPVGSGKT	SLMFD	LAH	RHSNA	QVITIE	165	
NTDB	id	24461	M28	RS00660	WP	011284420.1	DKQLSLRLSSVGDYRG	ESLVIRLLH	QNKSV	HYH	WFD	.GLTKV	ANQVGR	RGLYLF	AGPVGSGKT	TLMYQL	LISSYHQEA	QVIT	SIED	167
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	GETAALRLSTVGDYQ	RESVIRLIF	DRKRL	KFWFD	.GLNAL	PKIIGR	RGLYLF	SGPVGSGKTT	MYEL	VS	RKVPDS	QITIED	169	
NTDB	id	385	SMU	RS09035	WP	002263435.1	GKVISLRLSSVGDYRG	ESLVIRLLF	SGRHD	LKFWFN	.SMDL	ILNEIK	RGLYLF	SGPVGSGKT	SLMYQL	VKL	RFETK	QVITIED	167	
NTDB	id	394	FSA28	RS09405	WP	002291652.1	GKVISLRLSSVGDYRG	ESLVIRLLF	SGRHD	LKFWFN	.SMDL	ILNEIK	RGLYLF	SGPVGSGKT	SLMYQL	VKL	RFETK	QVITIED	167	
NTDB	id	429	SGO	RS09420	WP	012130942.1	.KETSI	RLSTVG DYRG	ESLVIRLLH	DEET	ELKFWFT	.HFPEL	REKFK	DRGLYLF	SGPVGSGKTT	LMHQ	LAQLK	FKCQ	QVMSIED	166
NTDB	id	500	SM1261	RS00945	WP	000249545.1	.KMASL	RLSTVG DYRG	ESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQGLYLF	AGPVGSGKTT	LMHEL	SKSLFK	CQ	QVMSIED	166
NTDB	id	270	KZH43	RS09265	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQGLYLF	AGPVGSGKTT	LMHEL	SKSLFK	CQ	QVMSIED	166
NTDB	id	229	SPD	RS09895	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQGLYLF	AGPVGSGKTT	LMHEL	SKSLFK	CQ	QVMSIED	166
NTDB	id	195	SPR	RS09430	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQGLYLF	AGPVGSGKTT	LMHEL	SKSLFK	CQ	QVMSIED	166
NTDB	id	160	SP	RS10380	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQGLYLF	AGPVGSGKTT	LMHEL	SKSLFK	CQ	QVMSIED	166
consensus							* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	* * * * *	* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	168

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	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	R	L	L	E	L	C	L	S	D	W		250	
NTDB	id	24461	M28	RS00660	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	T	L	V	I	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	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	L	N	S	I	G	M	T	Y	D	H	L	I	K	L	S	L	R	H	R	P	D	V	L	I	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	S	I	P	G	V	Y	A	R	L	E	L	G	V	S	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	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	T	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	C	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	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	T	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	C	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	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	E	I	K	Q	D	N</																																																																													

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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 24461 M28 RS00660 WP 011284420.1	ELSNCLALIAVQRLINGGALIDSTQNEFEYSSSNWNQQIDQLLEAGHLNPKQAKLEKII.....	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	ELAVVLQGV CYQRLIGGGGIVDFANKDYQEHQSTSWNAQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 270 KZH43 RS09265 WP 000249564.1	ELAVVLQGV CYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 229 SPD RS09895 WP 000249564.1	ELAVVLQGV CYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 195 SPR RS09430 WP 000249564.1	ELAVVLQGV CYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 160 SP RS10380 WP 000249564.1	ELAVVLQGV CYQRLIGGGGIVDFASRDYQEHQA AKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
consensus	*! ! ** !!*!***** ** * ** ** ** ** ** ** ** ** ** ** ** ** ** ** **	

- non conserved
- similar
- ≥ 50% conserved