

NTDB id 108	BSU 35470 NP 391427.1	MNVPVEKNSSFSKELQQTLSRPHLLRTEL	SFSD	EMIEW..HIKNGYITAENSISIN	KRYRCNRCGQTDQRYFSFYHSSG	78
NTDB id 615	LCA RS02545 WP 011374200.1	MGQQQVIACGRQFTAAQLADTQNN		NYSLPQIKRRPAFLRVKHLRLVCQR	CCQV.VPPQT...CLP	59
NTDB id 593	KW2 RS05130 WP 021037147.1	MNLILENLLGHLLLEKDISAFNNFTDQVNN	ENKLIKIGAMTSVNANKVRCNRCG	TIH	IKTNV...KLP	65
NTDB id 1159302	QOR61 RS02250 WP 000432963.1	MENYLGRLWTKAQLSEQ		LRKTAISLPSFIKIKGSDYICTR	SSSVAKNC...QLP	51
NTDB id 277	KZH43 RS10090 WP 000867601.1	MKVNDYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
NTDB id 236	SPD RS10765 WP 000867601.1	MKVNDYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
NTDB id 202	SPR RS10250 WP 000867601.1	MKVNDYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
NTDB id 167	SP RS11275 WP 000867616.1	MKVNDYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
NTDB id 507	SM12261 RS09240 WP 000867722.1	MKVNPNYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
NTDB id 535	SMSK321 RS10515 WP 000867726.1	MKVNPNYLGRLFTENELTEE		ERQLAEKLPA	MRKEKGKLFCCQRCNST.ILEEW...YLP	54
consensus		*****	*****	*****	*****	*****

NTDB id	108	BSU 35470 NP 391427.1	KNKLYCRSCVMGRVSEVPPLYSWKENESNWSIKLTDWGLSSGQQAANVLIEATSKKEELLIVAVCGAGKTEMLFP	158
NTDB id	615	LCA RS02545 WP 011374200.1	DGRHYCACCLIFGRIVEGDWLTYVPECHLFENNIPKLITWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLEFQ	139
NTDB id	593	KW2 RS05130 WP 021037147.1	IGAFECPTCLELRVRSDYFYHLPPQDFPEKT..YLRTWGKLTENQEKTSDALCQQITNNQKLLVQAVTGAGKTEMIYQ	143
NTDB id	1159302	QOR61 RS02250 WP 000432963.1	TGNYYCRECI VFGRVTSENENLYFFPQKTFSTTN..SLKWKGGLTPYQNEVSEELLKGISSKENLVHAVTGA G KTEMIYH	129
NTDB id	277	KZH43 RS10090 WP 000867601.1	IGAYYC RECLLMKRVRSDQTL YFFP QED FPKQD..VLKWRGQLTPPFQEKVSEG LL QA VDKQP TL VH AV T GA GK TE MI YQ	132
NTDB id	236	SPD RS10765 WP 000867601.1	IGAYYC RECLLMKRVRSDQTL YFFP QED FPKQD..VLKWRGQLTPPFQEKVSEG LL QA VDKQP TL VH AV T GA GK TE MI YQ	132
NTDB id	202	SPR RS10250 WP 000867601.1	IGAYYC RECLLMKRVRSDQTL YFFP QED FPKQD..VLKWRGQLTPPFQEKVSEG LL QA VDKQP TL VH AV T GA GK TE MI YQ	132
NTDB id	167	SP RS11275 WP 000867616.1	IGAYYC RECLLMKRVRSDQTL YFFP QED FPKQD..VLKWRGQLTPPFQEKVSEG LL QA VDKQP TL VH AV T GA GK TE MI YQ	132
NTDB id	507	SM12261 RS09240 WP 000867722.1	IGTYYC RECLLMKRVRSDQS LY FF P Q ED FP K Q D .. VL KW RG QL TP PF Q DV KS Q GL L QA VD K Q EP SL VH AV T GA GK TE MI YQ	132
NTDB id	535	SMSK321 RS10515 WP 000867726.1	IGAYYC RECLLMKRVRSDQVLYFFPQEDFAKQD..ILKWRGQLTPPFQEKVSEG LI QA VDK QEPI LV H AV T GA GK TE MI YQ	132
consensus			* * * * *	*

NTDB id	108	BSU	35470	NP	391427.1	GIESALNQGLRVCIIATPRTDVVLELAPRLKAAFQGADISALYGGSDDKGRLSPLMISTTHQLLRVKDAIDVTMIIDEVDFAF	238
NTDB id	615	LCA	RS02545	WP	011374200.1	GILVALQKGQRVCIAAPRVAVCLEYLPRLQAAFATTSIMMHGEQTPEPYRYTQLVICITTHQLLKIFYHAFDFTIVIVDEVDFAF	219
NTDB id	593	KW2	RS05130	WP	021037147.1	LIEQLSHGGSVGLASPRIDVCIETLHQRLSRDFTC.QIPLLYHE.GDSYFRSPLVMSTSHQLIRFKAEAFDLLIIDEVDFAF	221
NTDB id	1159302	QOR61	RS02250	WP	000432963.1	SVAKVIDTGGSVCIIASPRIDVCLELHKRLSNDFRC.AITLMHGE.SPSYQRSPLTIATTHQLLKIFYHAFDLLIVDEVDAF	207
NTDB id	277	KZH43	RS10090	WP	000867601.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQQDFSC.GIALHGE.SEPYFRTPLVVATTHQLLKIFYAQFDLLIVDEVDAF	210
NTDB id	236	SPD	RS10765	WP	000867601.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQQDFSC.GIALHGE.SEPYFRTPLVVATTHQLLKIFYAQFDLLIVDEVDAF	210
NTDB id	202	SPR	RS10250	WP	000867601.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQQDFSC.GIALHGE.SEPYFRTPLVVATTHQLLKIFYAQFDLLIVDEVDAF	210
NTDB id	167	SP	RS11275	WP	000867616.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQQDFSC.GIALHGE.SEPYFRTPLVVATTHQLLKIFYAQFDLLIVDEVDAF	210
NTDB id	507	SM12261	RS09240	WP	000867722.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQKDFAE.EIALHGE.SEPYFRTPLVVATTHQLLKIFYAQFDLLIVDEVDAF	210
NTDB id	535	SMSK321	RS10515	WP	000867726.1	VVAKVINAGGAVCLASPRIDVCLELYKRLQDDFAE.EISLLYGE.SEPYFRTPLVVSITHQLLKIFYAQFDLLIVDEVDAF	210
consensus						* ** * * * * *	

```
NTDB id 108 BSU 35470 NP 391427.1
NTDB id 615 LCA RS02545 WP 011374200.1
NTDB id 593 KW2 RS05130 WP 021037147.1
NTDB id 1159302 QOR61 RS02250 WP 000432963.1
NTDB id 277 KZH43 RS10090 WP 000867601.1
NTDB id 236 SPD RS10765 WP 000867601.1
NTDB id 202 SPR RS10250 WP 000867601.1
NTDB id 167 SP RS11275 WP 000867616.1
NTDB id 507 SM12261 RS09240 WP 000867722.1
NTDB id 535 SMSK321 RS10515 WP 000867726.1
consensus
```



```
NTDB id 108 BSU 35470 NP 391427.1
NTDB id 615 LCA RS02545 WP 011374200.1
NTDB id 593 KW2 RS05130 WP 021037147.1
NTDB id 1159302 QOR61 RS02250 WP 000432963.1
NTDB id 277 KZH43 RS10090 WP 000867601.1
NTDB id 236 SPD RS10765 WP 000867601.1
NTDB id 202 SPR RS10250 WP 000867601.1
NTDB id 167 SP RS11275 WP 000867616.1
NTDB id 507 SM12261 RS09240 WP 000867722.1
NTDB id 535 SMSK321 RS10515 WP 000867726.1
consensus
```



- X non conserved
- X similar
- X >50% conserved