

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	MTCQNCNINEAT.....I	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MTCQNCKINDST.....I	13
NTDB id 245 SPD RS03860 WP 000882517.1	MTCQNCKINDST.....I	13
NTDB id 243 SPR RS03635 WP 000882517.1	MTCQNCKINDST.....I	13
NTDB id 241 SP RS04015 WP 000882523.1	MTCQNCKINDST.....I	13
NTDB id 82941 H7679 RS02765 WP 024395236.1	MCKNCNINDAT.....I	13
NTDB id 378 SMU RS02690 WP 002263569.1	MTCQNCKINEAT.....I	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAAQEEALRLGHNNIGTEHILLGLVREGEIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPTLDRILEKAE EYAHQYGYGTIESAHL LAA MATTSGS IAYSLLAGMNV DSSDLLIDL.....EDLSSHVKVKR	77
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..D	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESP FLETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSEDI	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESP FLETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSEDI	81
consensus	* * * * *	

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NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQ...IMKSGGQEAFLFGAGNASNGNSDEPFNP.....FNDIFSA.....QG...QDFNG	76
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGCKKQIDLCQNCYK...IHKDPNNSLFKGMTD...LNNRD.FDP.....FGDFFNDL...NNFRPS....	72
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGCKKQIDLCQNCYK...IHKDPNNSLFKGMTD...LNNRD.FDP.....FGDFFNDL...NNFRPS....	72
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGCKKQIDLCQNCYK...IHKDPNNSLFKGMTD...LNNRD.FDP.....FGDFFNDL...NNFRPS....	72
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGCKKQIDLCQNCYK...IHKDPNNSLFKGMTD...LNNRD.FDP.....FGDFFNDL...NNFRPS....	72
NTDB	id	82941	H7679	RS02765	WP	024395236.1	HLYTNLNGCKQQVDLCHNCYQ...IMKTDPNNAFLRGLGD...LTNPNNMDP.....FSEFFNH...GGYPGNTPAG	77
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQ...IMKTDPENGPLNHLSSQ...QNSSSINPF.....FDDFFGDL...NNERAFN..N	75
NTDB	id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEEVMTAASFLAIHNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLVAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEEAAISQVTHAKEVGTEHVLFAMLLNPNLLATRIELVLVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEVGEHVLMAFLHLKDLMVCRLLELVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEVGEHVLMAFLHLKDLMVCRLLELVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus							* * * * *	

NTDB id 601	KW2 RS02615 WP 021036805	AASNQTP	PTQTGGR	GPRGPQNPRAKQPKG	MLEEF	GINITESARRGE	IDPVI	GRD	EIKRV	IEILNRRT	TKNNPVL	151		
NTDB id 281	KZH43 RS03550 WP 000882517.1	SNTPPIP	PTQSGG	GGYGGNGGYGSQNRGSAQT	PPPSQEK	GLLEEF	GINVTE	IARRGD	IDPVI	GRD	EIRV	IEILNRRT	TKNNPVL	157
NTDB id 245	SPD RS03860 WP 000882517.1	SNTPPIP	PTQSGG	GGYGGNGGYGSQNRGSAQT	PPPSQEK	GLLEEF	GINVTE	IARRGD	IDPVI	GRD	EIRV	IEILNRRT	TKNNPVL	157
NTDB id 243	SPR RS03635 WP 000882517.1	SNTPPIP	PTQSGG	GGYGGNGGYGSQNRGSAQT	PPPSQEK	GLLEEF	GINVTE	IARRGD	IDPVI	GRD	EIRV	IEILNRRT	TKNNPVL	157
NTDB id 241	SP RS04015 WP 000882523.1	SNTPPIP	PTQSGG	GGYGGNGGYGSQNRGSAQT	PPPSQEK	GLLEEF	GINVTE	IARRGD	IDPVI	GRD	EIRV	IEILNRRT	TKNNPVL	157
NTDB id 82941	H7679 RS02765 WP 024395236.1	KNREQTP	PTQAG	CHNGR.GGQTTP.PQ....	QPQ	QPNGLLEEF	GINVTE	IARRGD	IDPVI	GRD	QETRV	IEILNRRT	TKNNPVL	155
NTDB id 378	SMU RS02690 WP 002263569.1	QDLPNTP	PTQAG	CGNGN.GGNNRR.PGGPQQ	QASQKPN	GLLEEF	GINLTD	IARKGE	IDPVI	GRD	EETRV	IEILNRRT	TKNNPVL	158
NTDB id 85	BSU 00860 NP 387967.1			GSSAAGTNSNANTPT	LDLSLARD	LTAIA	IKEDSLDPVIGR	SK	EIQRV	IEVLS	RRRT	TKNNPVL	207	
NTDB id 610	V4T04 RS10165 WP 012897346.1	AVTPMSKR	KMAK	VAENSTTPT	LDVS	SSDLEEAR	LKGLD	PMIGRAE	IDL	LIHL	LSRR	TKNNPVL	220	
NTDB id 287	SP RS11210 WP 001109712.1	.LRQRHRTV	.ADKQ	NSMANMMGM	PQT	PSGGLEDY	THDLTE	QARS	GKLEP	VIGRD	KEISRM	IQILSR	TKNNPVL	233
NTDB id 290	KZH43 RS10025 WP 001109677.1	.LRQRHRTV	.ADKQ	NSMANMMGM	PQT	PSGGLEDY	THDLTE	QARS	GKLEP	VIGRD	KEISRM	IQILSR	TKNNPVL	233
NTDB id 289	SPD RS10700 WP 001109677.1	.LRQRHRTV	.ADKQ	NSMANMMGM	PQT	PSGGLEDY	THDLTE	QARS	GKLEP	VIGRD	KEISRM	IQILSR	TKNNPVL	233
NTDB id 377	SMU RS09275 WP 002262344.1	.IFEMRK	PKKV	KNS.....SSFSDLM	KPPTSVT	GELADFT	TRDLTEL	ARQGR	LEP	VIGR	EEISRM	VQILSR	TKNNPVL	237
NTDB id 297	STER RS00545 WP 011680614.1	.IHDLRK	PKKSK	AS.....ANFANMM	QPPQ	SSTGEL	LADYTKD	LTA	LAESGNLDP	VIGR	DEEISRM	IQVLSR	TKNNPVL	240
NTDB id 329	STU RS10020 WP 011225298.1	.IHDLRK	PKKSK	AS.....ANFANMM	QPPQ	SSTGEL	LADYTKD	LTA	LAESGNLDP	VIGR	DEEISRM	IQVLSR	TKNNPVL	240
consensus			*	*	**	*	!***	*!***!*	***!?!*!	!!	!*	!	!***!?!*!	*

NTDB id 601	KW2 RS02615 WP 021036805.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	Q	K	L	Q	N	K	E	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	K	R	N	D	V	I	M	F	I	D	E	I	H	E	I	V	G	A	G	S	D	236							
NTDB id 281	KZH43 RS03550 WP 000882517.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	K	R	E	D	I	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	242							
NTDB id 245	SPD RS03860 WP 000882517.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	K	R	E	D	I	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	242							
NTDB id 243	SPR RS03635 WP 000882517.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	K	R	E	D	I	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	242							
NTDB id 241	SP RS04015 WP 000882523.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	K	R	E	D	I	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	242							
NTDB id 82941	H7679 RS02765 WP 024395236.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	Q	K	L	R	D	K	E	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	N	R	E	I	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	240								
NTDB id 378	SMU RS02690 WP 002263569.1	GEPGVGKTA	V	VEGLAQ	K	I	V	D	G	D	V	P	Q	K	L	H	G	K	N	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	Q	F	E	E	R	M	Q	K	L	M	E	I	R	Q	R	Q	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	D	243							
NTDB id 85	BSU 00860 NP 387967.1	GEPGVGKTA	I	A	E	G	L	A	Q	I	I	N	N	E	V	P	E	I	L	R	D	K	R	V	M	T	L	D	M	G	T	V	V	A	G	T	K	Y	R	G	E	F	D	R	L	K	K	V	M	D	E	I	R	Q	A	G	N	I	I	L	F	I	D	E	L	H	T	L	I	G	A	G	G	A	E	291
NTDB id 610	V4T04 RS10165 WP 012897346.1	GEPGVGK	S	A	I	E	G	L	A	Q	R	I	V	N	G	Q	V	P	I	G	L	M	N	S	R	I	M	A	L	N	M	A	T	V	A	G	T	K	F	R	G																																			

[illegible]

NTDB id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQLAKE	LFGSS	ESMIRFDMSEYMEKHSAVAKLIGAPPGYVGVEAGQLTEKVRNRPYSLLDDETEKAHPDVMMHFL	567
NTDB id	281	KZH43	RS03550	WP	000882517.1	TGVGKTEL	SKQLAIELFGSADSMIRFDMSEYMEKHSAVKLVGAPPGYVGDEAGQLTEKVRHNRPYSLLDDEVEKAHPDVMMHFL	573	
NTDB id	245	SPD	RS03860	WP	000882517.1	TGVGKTEL	SKQLAIELFGSADSMIRFDMSEYMEKHSAVKLVGAPPGYVGDEAGQLTEKVRHNRPYSLLDDEVEKAHPDVMMHFL	573	
NTDB id	243	SPR	RS03635	WP	000882517.1	TGVGKTEL	SKQLAIELFGSADSMIRFDMSEYMEKHSAVKLVGAPPGYVGDEAGQLTEKVRHNRPYSLLDDEVEKAHPDVMMHFL	573	
NTDB id	241	SP	RS04015	WP	000882523.1	TGVGKTEL	SKQLAIELFGSADSMIRFDMSEYMEKHSAVKLVGAPPGYVGDEAGQLTEKVRHNRPYSLLDDEVEKAHPDVMMHFL	573	
NTDB id	82941	H7679	RS02765	WP	024395236.1	TGVGKTEL	SKQLAIELFGSADSMIRFDMSEYMEKHSAVKLVGAPPGYVGVEAGQLTEKVRNRPYSLLDDEVEKAHPDVMMHFL	571	
NTDB id	378	SMU	RS02690	WP	002263569.1	TGVGKTEL	SKQLAIELFGSED	SMIRFDMSEYMEKHSAVKLVGAPPGYVGVEAGQLTEKVRNRPYSLLDDEVEKAHPDVMMHFL	574
NTDB id	85	BSU	O0860	NP	387967.1	TGVGKTELARALAES	IFGD	EESMIRIDMSEYMEKHSTSRVLGSPPGYVGDEGGQLTEKVRNKPYSVVLLDDETEKAHPDVFNIILL	631
NTDB id	610	V4T04	RS10165	WP	012897346.1	TGVGKTELAKALADS	VFGSDNMIRVDMSEFMKEHSTSRRLIGAPPGYVGDEGGQLTERVRNKPYSVVLLDDEVEKAHPDVFNIML	640	
NTDB id	287	SP	RS11210	WP	001109712.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDDEVEKAHPDIFNVLL	635
NTDB id	290	KZH43	RS10025	WP	001109677.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDDEVEKAHPDIFNVLL	635
NTDB id	289	SPD	RS10700	WP	001109677.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDDEVEKAHPDIFNVLL	635
NTDB id	377	SMU	RS09275	WP	002262344.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDDEVEKAHPDIFNIILL	638
NTDB id	297	STER	RS00545	WP	011680614.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGDEGGELTEKVRNKPYSVLLFDETEKAHPDIFNIILL	641
NTDB id	329	STU	RS10020	WP	011225298.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEKF AASRLNGAPPGYVGDEGGELTEKVRNKPYSVLLFDETEKAHPDIFNVLL	641
consensus						!!!!!!!*	!!	*!* ** *?*?!*!?!*!?!* *?!*?!*!?!*!?!*!?!*!?!*!?!*!?!*!?!*!?!*!?!*!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	VISNQTQETAETTDDEEVPAE	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKKAIEVKSSEKEK...	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKKAIEVKSSEKEK...	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKKAIEVKSSEKEK...	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKKAIEVKSSEKEK...	752
NTDB id 82941 H7679 RS02765 WP 024395236.1	QIKAQTKTK.....	742
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNKVETVTKATSD...	753
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus	*	

- non conserved
- similar
- ≥ 50% conserved