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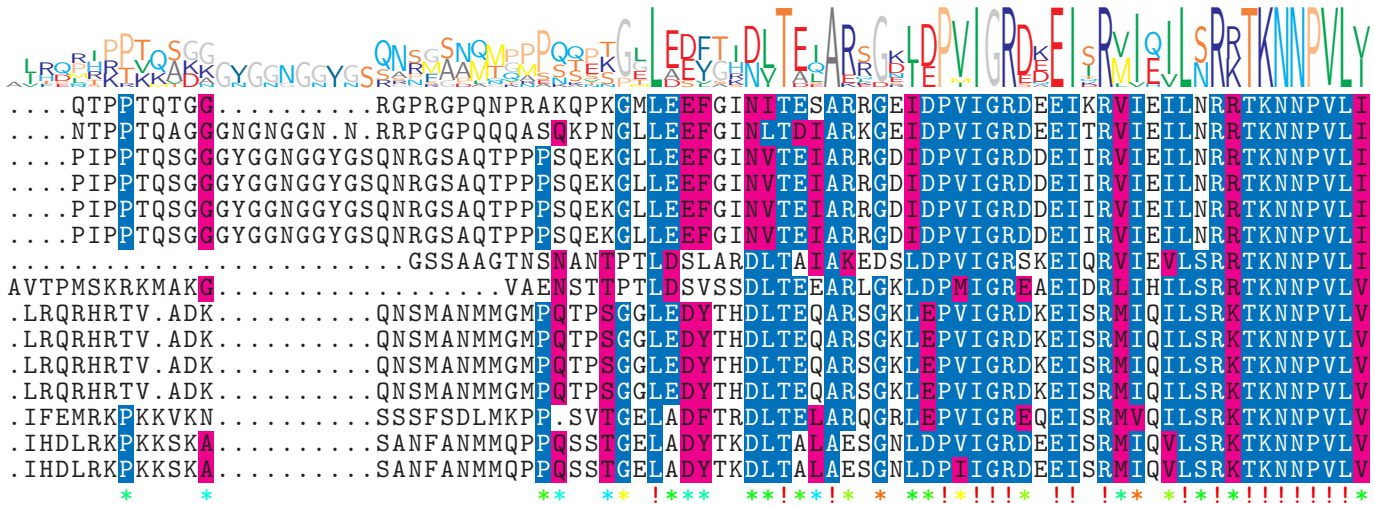
NTDB id	601 KWT RS02615 WP 021036805.1		MTCQNCNINEA	TI	13		
NTDB id	378 SMU RS02690 WP 002263569.1		MTCQNCKINEA	TI	13		
NTDB id	281 KZH43 RS03550 WP 000882517.1		MTCQNCKINDS	TI	13		
NTDB id	245 SPD RS03860 WP 000882517.1		MTCQNCKINDS	TI	13		
NTDB id	243 SPR RS03635 WP 000882517.1		MTCQNCKINDS	TI	13		
NTDB id	241 SP RS04015 WP 000882523.1		MTCQNCKINDS	TI	13		
NTDB id	85 BSU O0860 NP 387967.1	. . MMFGRFTTERRAQKVLALAEQAALRLGHNNGTEHLLGLVREGEGTAAKALQALGLGSEKIQEVEESLI GRGQEMS			75		
NTDB id	610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEEYAHHQYQYGTTIESAHLLAAAMATTSGSLAYSLLAGMNVDSDDLII DLEDLSSSHVKVKR			77		
NTDB id	287 SP RS11210 WP 001109712.1	 MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNNDYPYEMDRLE EVALELTETDYSQDET			75		
NTDB id	98311 R8635 RS11280 WP 001109696.1	 MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNNDYPYEMDRLE EVALELTETDYSQDET			75		
NTDB id	290 KZH43 RS10025 WP 001109677.1	 MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNNDYPYEMDRLE EVALELTETDYSQDET			75		
NTDB id	289 SPD RS10700 WP 001109677.1	 MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNNDYPYEMDRLE EVALELTETDYSQDET			75		
NTDB id	377 SMU RS09275 WP 002262344.1	 MTDYSLMKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAAIAIGKKPKSSSN . . DI			79		
NTDB id	297 STER RS00545 WP 011680614.1	 M TIYSRKMQAIFHRAQLAEAERFESPFL ET WHV LL AM VEVTGSVA Y L T F T D F E D R I H S E E I E T A A V L A M E K R P K D L S E S D I			81		
NTDB id	329 STU RS10020 WP 011225298.1	 M TIYSRKMQAIFHRAQLAEAERFESPFL ET WHV LL AM EVPGSV A Y L T F T D F E D R I H S E E I E T A A V L A M E K R P K D L S E S D I			81		
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NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQT...MKSQGGEALFGAGNASNGNSDE.....PFNP.FNDIFSA LGGQ.DFNGAASN.	80
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNCGQKKQIDLCQNCYQT...MKTDPENGPLNHSQQNSSS.....INPFFDDDFGDLNNFRAFNNQLDLP.	79
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	85	BSU	O0860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPPRAFEVMTAASFIAIHNNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSRKELEKRTGLKVPESSK	153
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLLQVLFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	98311	R8635	RS11280	WP	001109696.1	TELPFSRRLLQVLFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRIELLVGFHAKDDGESIRLLDRKVTERYAGFSKEDIKA	164
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAEIASVGTGAVEVGSEHVLMFAFLHKDLMVCRLELVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAEGIASVGTGAVEVGSEHVLMFAFLHKDLMVCRLELVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 98311 R8635 RS11280 WP 001109696.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 98311 R8635 RS11280 WP 001109696.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMP	VITEKD	IEQI	VEQK	TQIPVGD	LKEKE	EQTQL	INLADD	DLKAHVIGQDE	EAVDK	ISKAIRRSRV	GLGKPN	RPIGSFL	LFVGP	482	
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTP	VITEKN	IEVI	VEQK	TNIPVGEL	LKEKE	EQSQL	IHLADD	DLKTRVIGQDA	AVDKI	AKAIRNRV	CLGTPN	RPIGSFL	LFVGP	489	
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTP	IISEKT	IEHI	IEQK	TNIPVGD	LKEKE	EQSQL	IHLAED	LKSHVIGQDD	DAVDK	IAKAIRNRV	CLGTPN	RPIGSFL	LFVGP	488	
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTP	IISEKT	IEHI	IEQK	TNIPVGD	LKEKE	EQSQL	IHLAED	LKSHVIGQDD	DAVDK	IAKAIRNRV	CLGTPN	RPIGSFL	LFVGP	488	
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTP	IISEKT	IEHI	IEQK	TNIPVGD	LKEKE	EQSQL	IHLAED	LKSHVIGQDD	DAVDK	IAKAIRNRV	CLGTPN	RPIGSFL	LFVGP	488	
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPS	IISEKT	IEHI	IEQK	TNIPVGD	LKEKE	EQSQL	IHLAED	LKSHVIGQDD	DAVDK	IAKAIRNRV	CLGTPN	RPIGSFL	LFVGP	488	
NTDB id 85 BSU 00860 NP 387967.1	EKQGGENSE	VTVDD	IAMV	VSSW	TGVPVSK	IAQTET	DKLLN	MENIL	HSRVIGQDE	EAVVAVAKAV	RRARACL	KDPK	RPIGSFL	FLGP	546	
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVKEDKRQE	VTDQA	VVAVASTL	TGVPIT	QMTKSE	ESDRLE	INLEKE	ELHKRV	VGQEEAT	ISAVSRA	IRRARARS	GVADSR	RRPM	GSFMMFLGP	555	
NTDB id 287 SP RS11210 WP 001109712.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAE	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 98311 R8635 RS11280 WP 001109696.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAE	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 290 KZH43 RS10025 WP 001109677.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAE	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 289 SPD RS10700 WP 001109677.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAE	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 377 SMU RS09275 WP 002262344.1	KPLLKKRAE	VKVEED	ILATLSKL	SGIPVKKL	TQAD	SKKYL	NLEREL	LHKRVIGQD	DAVSS	ISRAIRNR	QSGIRVGG	RRP	IGSFM	FLGP	553	
NTDB id 297 STER RS00545 WP 011680614.1	KAKFPKPA	LVDADQ	IMQTL	LSRL	SGIPVEKM	TQTD	SKRYL	NLESE	LHKRVIGQDE	AVSA	ISRAIRNR	QSGIRT	IGKRP	IGSFM	FLGP	556
NTDB id 329 STU RS10020 WP 011225298.1	KAKFPKPA	LVDADQ	IMQTL	LSRL	SGIPVEKM	TQTD	SKRYL	NLESE	LHKRVIGQDE	AVSA	ISRAIRNR	QSGIRT	IGKRP	IGSFM	FLGP	556
consensus	*	*****	*	**	*****!	*	*	*****	!* *	*****!	*****!	!* *	*****!	*****!	*****!	

NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKQLAKE	LFGSSSES	MIRFDMSEYMEKH	SVAK	LIGAPPGYGVGYE	EAGQ	LTERVVRNPYS	LILL	DETEKAHPD	VMH	MFL	567	
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTEL	SKQLAIELFGS	EDS	MIRFDMSEYMEKH	AVAK	LVGAPPGYGVGYE	EAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	574
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYGVGYE	EAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYGVGYE	EAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYGVGYE	EAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYGVGYE	EAGQ	LTEKVRNPYS	LILL	DEVEKAHPD	VMH	MFL	573
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELARALA	ESIFGDEES	MIRIDMSEYMEKH	STSR	LVGSPPGYGVGYE	DEGGQ	LTEKVRKPYSV	VLL	DETEKAHPD	VFN	ILL	631	
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALADS	VFGSEDN	MIRVDMSEFMEKH	STSR	LIGAPPGYGVGYE	DEGGQ	LTERVRNKPYSV	VLL	DEVEKAHPD	VFN	IML	640	
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DEVEKAHPD	IFN	VLL	635	
NTDB id 98311 R8635 RS11280 WP 001109696.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DEVEKAHPD	IFN	VLL	635	
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DEVEKAHPD	IFN	VLL	635	
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DEVEKAHPD	IFN	VLL	635	
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALA	EVLFDD	ESALIRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DEVEKAHPD	IFN	ILL	638	
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALA	EVLFDD	ESALLRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DETEKAHPD	IFN	ILL	641	
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALA	EVLFDD	ESALLRFDMSEYMEK	FAASRL	NGAPPGYGVGYE	EGGE	LTEKVRNKPYSV	LLF	DETEKAHPD	IFN	VLL	641	
consensus	!!!!!!!*	*!!	*	*!!*!!*!!*!!	**!	*!!*!!*!!*!!	*!!*!!	!!*!!	*!!*!!	!!*!!*!!	!!*!!*!!	641	

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
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 98311 R8635 RS11280 WP 001109696.1	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