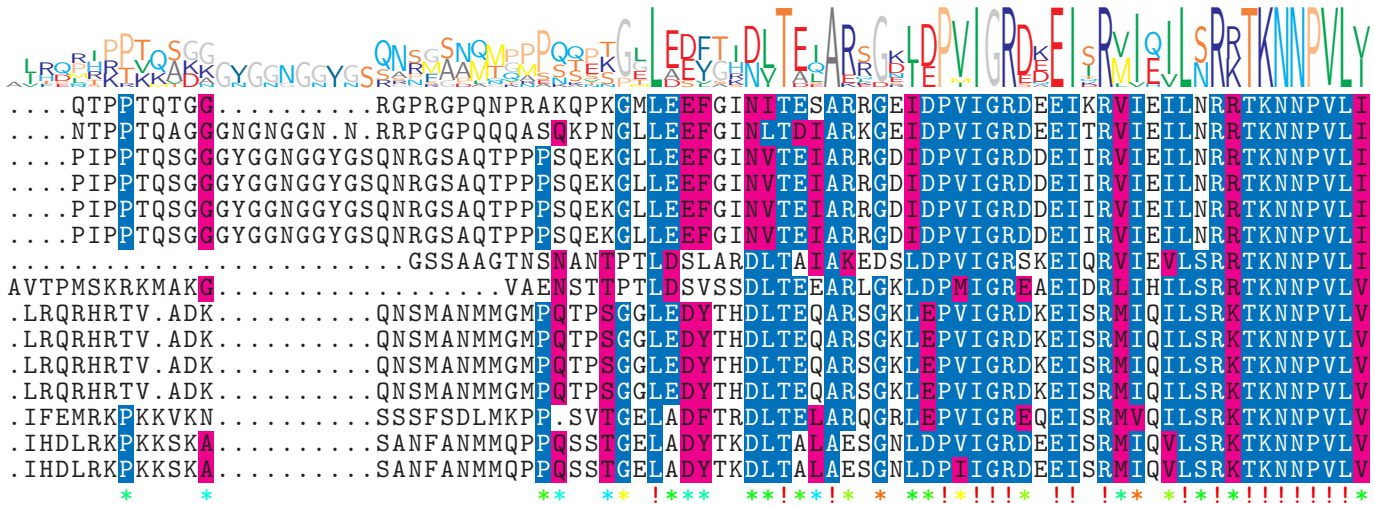


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NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....TI	13
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NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GRGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYEAHQYQYGTIESAHLIAAMATTSGSTAYSLLAGMNVDSDDLII.....DLEDLSSHVKVKR	77
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 97759 RS8563 RS10580 WP 001109697.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
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NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 329 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 327 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
consensus	*** * * * * *	

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NTDB	id	378	SMU	RS02690	WP	002263569.1	HLVANVNCGQKKQIDLCQNCYQT...MKTDPPENGPLNHISQQNSSS.....INPFFDDFFGDLNNFRAFNNQLDLP.	79
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGCKKQKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGCKKQKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLTYNLNGCKKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGCKKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TP.	76
NTDB	id	85	BSU	O0860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LCSNET....	147
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPPRAFEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSTRKETEKRTGLKVPESKK	153
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NTDB	id	97759	R8563	RS10580	WP	001109697.1	TELPFSRRLLQVLFDFAEAYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDFAEAYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDFAEAYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLLATRIELLVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEARMLQEAEIASVTGAVEVGSEHVLMAFLHLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEARMLQEAGIASVTGAVEVGSEHVLMAFLHLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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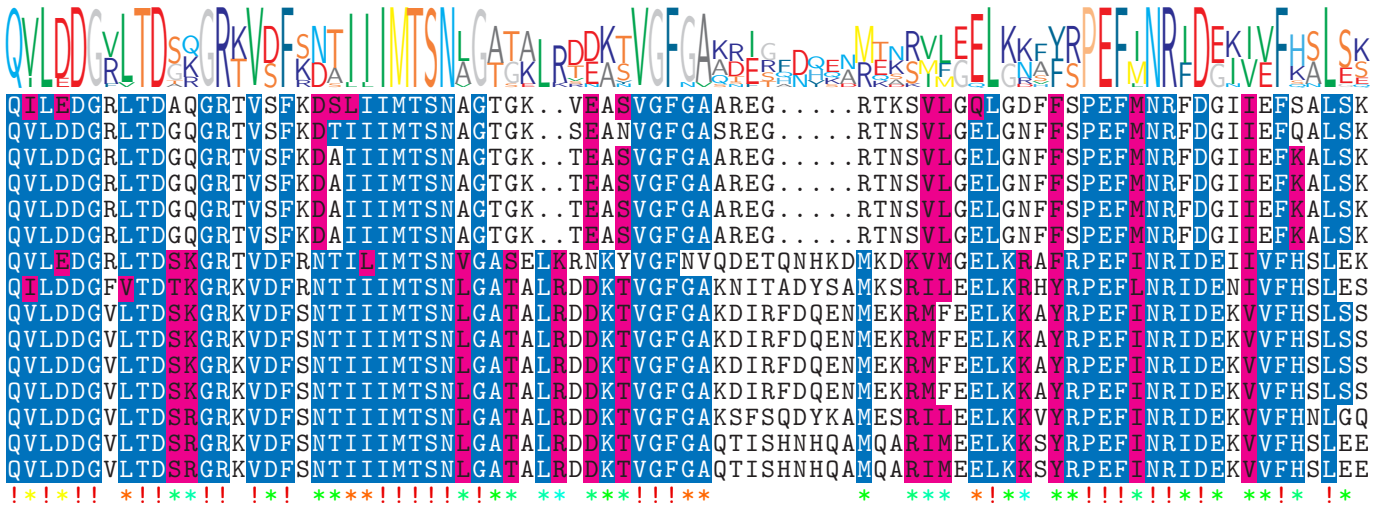
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NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTP	VITEKN	IEVI	VEQK	TNIPVGEL	LKEKE	EQSQL	IHLADD	DLKTRVIGQDA	AVDKI	AKAIRNRV	CLGTPN	RPIGSFL	LFVGP	489	
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTP	IISEKT	IEHI	IEQK	TNIPVGD	LKEKE	EQSQL	IHLAED	LKSHVIGQDD	DAVDK	IAKAIRNRV	CLGTPN	RPIGSFL	LFVGP	488	
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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	MENI	LHSRVIGQDE	EAVVAVAKAV	RRARACL	KDPK	RPIGSFL	FLGP	546	
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVKEDKRQE	VTDQA	VVAVASTL	TGVPIT	QMTKSE	ESDR	LINLEK	ELHKRV	VGQEEAT	ISAV	SRAIRRAR	GVADSR	RP	GSF	FLGP	555
NTDB id 287 SP RS11210 WP 001109712.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAEL	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 97759 R8563 RS10580 WP 001109697.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAEL	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 290 KZH43 RS10025 WP 001109677.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAEL	LHKRVIGQD	QAVSS	ISRAIRNR	QSGIRSHK	RPIGSFM	FLGP	550		
NTDB id 289 SPD RS10700 WP 001109677.1	EVVPV.YKD	LVTESD	ILTTLSRL	SGIPVQKL	TQTD	AKKYL	NLEAEL	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	RPIGSFM	FLGP	553		
NTDB id 297 STER RS00545 WP 011680614.1	KAKFPKPA	LVDADQ	IMQTL	SRLSGIP	VEKMTQT	DSKRYL	NLSE	ELHKRVIGQDE	AVSSA	ISRAIRNR	QSGIRT	GKR	RPIGSFM	FLGP	556	
NTDB id 329 STU RS10020 WP 011225298.1	KAKFPKPA	LVDADQ	IMQTL	SRLSGIP	VEKMTQT	DSKRYL	NLSE	ELHKRVIGQDE	AVSSA	ISRAIRNR	QSGIRT	GKR	RPIGSFM	FLGP	556	
consensus	*	*****	*	**	*****!	*	*	*****	!* *	*****!	*****!	!* *	*****!	*****!	*****!	

NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKQLAKE	LFGSSSES	MIRFDMSEYMEKH	SVAK	LIGAPPGYVGYE	EAGQ	LTERVRN	PYSL	LILL	DETEKAHPD	VMH	MFL	567		
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTEL	SKQLAIELFGS	EDS	MIRFDMSEYMEKH	AVAK	LVGAPPGYVGYE	EAGQ	LTEKVRN	PYSL	LILL	DEVEKAHPD	VMH	MFL	574	
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYVGYE	EAGQ	LTEKVRN	PYSL	LILL	DEVEKAHPD	VMH	MFL	573	
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYVGYE	EAGQ	LTEKVRN	PYSL	LILL	DEVEKAHPD	VMH	MFL	573	
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYVGYE	EAGQ	LTEKVRN	PYSL	LILL	DEVEKAHPD	VMH	MFL	573	
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTEL	SKQLAIELFGS	ADS	MIRFDMSEYMEKH	SVAK	LVGAPPGYVGYE	EAGQ	LTEKVRN	PYSL	LILL	DEVEKAHPD	VMH	MFL	573	
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELARALAE	SIFGDEES	MIRIDMSEYMEKH	STSR	LVGSPPGYVGYE	DEGGQ	LTEKVRN	KPYSV	VLL	DETEKAHPD	VFN	ILL	631		
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAE	SVFGS	EDNM	MIRVDMSEFMEKH	STSR	LIGAPPGYVGYE	DEGGQ	LTERVRN	KPYSV	VLL	DEVEKAHPD	VFN	IML	640	
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAE	SVLFDD	ESAL	IRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DEVEKAHPD	IFNV	VLL	635
NTDB id 97759 R8563 RS10580 WP 001109697.1	TGVGKTELAKALAE	SVLFDD	ESAL	IRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DEVEKAHPD	IFNV	VLL	635
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAE	SVLFDD	ESAL	IRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DEVEKAHPD	IFNV	VLL	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAE	SVLFDD	ESAL	IRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DEVEKAHPD	IFNV	VLL	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAE	SVLFDD	ESAL	IRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DEVEKAHPD	IFNV	VLL	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAE	SVLFDD	ESAL	LLRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DETEKAHPD	IFNV	VLL	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAE	SVLFDD	ESAL	LLRFDMSEYMEK	FAASRL	N	GAPPGYVGYE	EGGE	LTEKVRN	KPYSV	VLL	DETEKAHPD	IFNV	VLL	641
consensus	!!!!!!!*	*!*!	*	***!*	!!*!!	***!	!!*!!!!!!	*!*!	!!*!!	*!!!!*	!!*!!!!*	!!*!!!!*	641		

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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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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
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NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
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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