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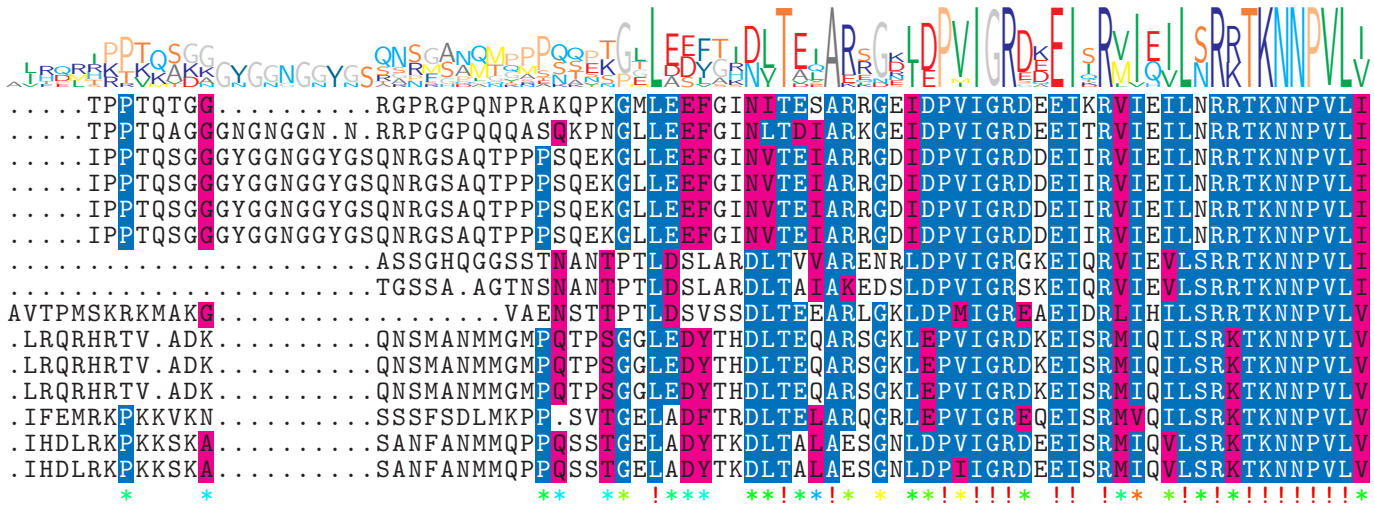
NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 121699 DJ48 RS21275 WP 000971179.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGLAAKALIALGLSPEKVQKEVEALIG.....RGTEAS	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLIGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI	79
NTDB id 329 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 327 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
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NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQI...MKS	GGQ	EAL	FG	AGNAS	NGNSDE		PFNP	FND	I	FSA	L	GG	DFNGAASNQ	81
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQI...MKTDP	P	ENG	PLNH	ISQQN	SSS		INPFFD	D	FFGD	LNN	FRAFNN	QDLPN	80	
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	N..TPP	77	
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	N..TPP	77	
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	N..TPP	77	
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	N..TPP	77	
NTDB	id	121699	DJ48	RS21275	WP	000971179.1	QTVHYTPRAKKVIELSMDEARKLGHSYV	GTEH	ILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYV	GTEH	ILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEEVMTAASFALAIHNNSEAV	GTEH	LYA	LLQ	VED	GFGLQL	KL.....	QKINIVS	L	RKE	L	EKRTGL	KVPESKK	153	
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLQILFDEAEYVASVHAKVLT	GTEH	VLYA	ILHD	GNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA				160	
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLQILFDEAEYVASVHAKVLT	GTEH	VLYA	ILHD	GNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA				160	
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLQVLFDEAEYVASVHAKVLT	GTEH	VLYA	ILHD	SNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA				160	
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEEAAISQVTHAKEV	GTEH	VLF	AMLL	NPNLLATRI	LELVGFHAKDDGESIRLL	DL	RKV	I	ERYAGF	SKEDIKA			164	
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEV	GSEH	V	LMAFL	LHKD	LMVCRLE	LEVAGFQYKDDSDKPRII	DL	R	RS	L	ERNAGL	SKQDLKA	166	
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEV	GSEH	V	LMAFL	LHKD	LMVCRLE	LEVAGFQYKDDSDKPRII	DL	R	RS	L	ERNAGL	SKQDLKA	166	
consensus							*	*	*	*	*	*	*****	*	*	*	*	*	*		

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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
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 121699 DJ48 RS21275 WP 000971179.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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[illegible]

LSNRYIQDRFLPDKAIDLLDEAGSKVNLTKEVDPKEIDPRLFAENLPKDTLRSDFEKAAYLRDQIAEKYKEMQK...K...K...
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 AAHRYLTSKNLPDS AIDLLDEASATVQVRIKK...EDKREI...T...PLDEALISGDIGA AVKQYKANQ...K...
 AAHRYLTSKNLPDS AIDLLDEASATVQVRIKK...EAKREI...T...PLDEALISGDIGA AVKQYKANQ...K...
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NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPVITEKDI	EQIVEQKTQIPVGD	LKEKEQQTQLINL	ADDLKAHVIGQDE	AVDKISK	AI	RRSRVGL	GKPNRPIGSFL	LVGP	482
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKNI	IEVIVEQKTNIPVG	ELKEKEQSQLIHL	ADDLKTRVIGQDA	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL	LVGP	489
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKTI	IEHIIIEQKTNIPV	GD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL	LVGP
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 121699 DJ48 RS21275 WP 000971179.1	EQQKGENSEVTVED	IANVVSTWTRIPV	SKL	AQTETDKLLN	LESILHDRVIGQDE	AVVA	AKAVRRARAGL	KDPKRP	IGSFIFLGP	547
NTDB id 85 BSU 00860 NP 387967.1	EKQGGQENSEVTVD	DIAMVVSSWTGVP	VS	KIAQTETDKLLN	MENILHSRVIGQDE	AVVA	AKAVRRARAGL	KDPKRP	IGSFIFLGP	546
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVTDQAV	VAVASTLTGVPIT	QMTKSESDRLIN	LEKELH	KRVVGQEEA	ISAVS	RAIRRARSGV	ADSR	RRPMGSFMFLGP	555
NTDB id 290 KZH43 RS10025 WP 001109677.1	VPV.YKDLV	TESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLN	NLEAELH	KRVIGQDQAV	SSISR	RAIRRNQSGIR	SHKRP
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKDLV	TESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLN	NLEAELH	KRVIGQDQAV	SSISR	RAIRRNQSGIR	SHKRP
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKDLV	TESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLN	NLEAELH	KRVIGQDQAV	SSISR	RAIRRNQSGIR	SHKRP
NTDB id 377 SMU RS09275 WP 002262344.1	PLKKRAEV	KIEDIL	ATLSKLSGIPV	KKLTQAD	SKKYLN	LNERELH	KRVIGQDD	AVSSISR	RAIRRNQSGIR	VGKRP
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEK	MTQT	DSKRYLN	NLESELH	KRVIGQDE	AVSAISR	RAIRRNQSGIR	TGKRP
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEK	MTQT	DSKRYLN	NLESELH	KRVIGQDE	AVSAISR	RAIRRNQSGIR	TGKRP
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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	567
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	574
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	573
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKHS	VSRLNGAPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	573
NTDB id 121699 DJ48 RS21275 WP 000971179.1	TGVGKTELAKALAE	SMFGDEDSMIR	IDMSEYMEKH	STSRLVGSPPGYVGY	EEGGQTEKVR	RKPYSVLL	DEVEKAHPD	IFNVLL	632
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELAKALAE	SMFGDEDSMIR	IDMSEYMEKH	STSRLVGSPPGYVGY	EEGGQTEKVR	RKPYSVLL	DEVEKAHPD	IFNVLL	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAE	SVFGSEDNMIR	VDMSEFMEKH	STSRLVGSPPGYVGY	DEGGQTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	EEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	EEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	EEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	EEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	DEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAE	VLFDDESALIR	IFDMSEYMEK	FAASRLNGAPPGYVGY	DEGGELTEKVR	NKPYSVLL	DEVEKAHPD	IFNVLL	641
consensus	!!!!!!!!!!	*****	!* *	***	*****	*****	*****	*****	*****

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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 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
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 121699 DJ48 RS21275 WP 000971179.1	VIHSAEKVK.....	811
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	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