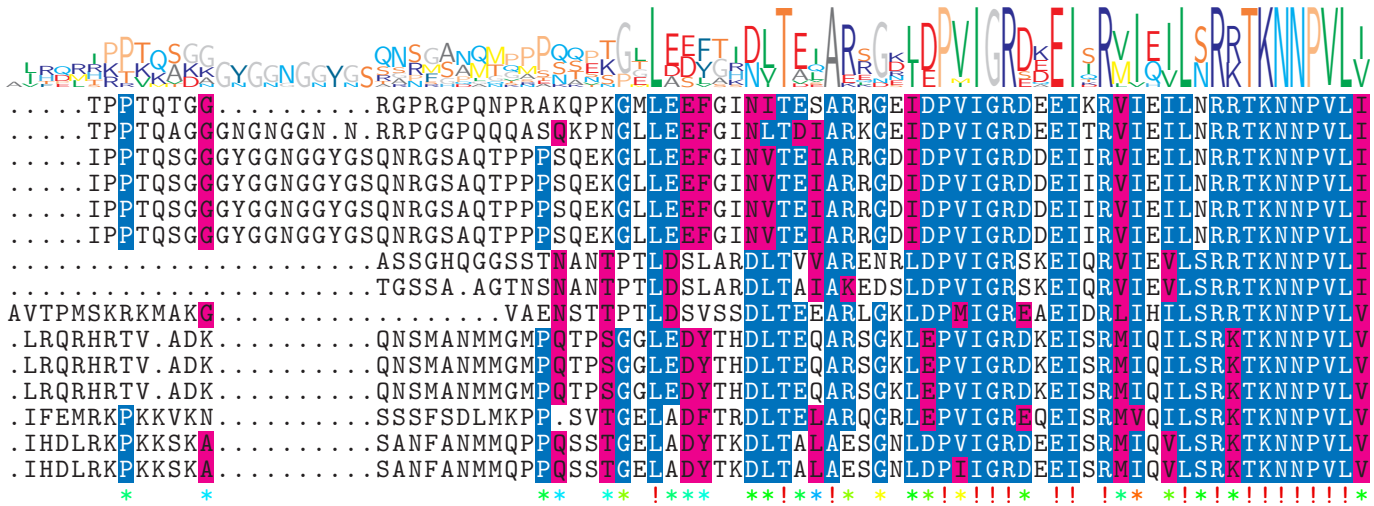


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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 121626 DF16 RS01445 WP 000971187.1
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
consensus



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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 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
consensus



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NTDB id	601	KW2	RS02615	WP	021036805.1	EVTDEDMPVITEKDI	EQIVEQKTQIPVGD	LKEKEQQTQLINL	ADDLKAHVIGQDE	AVDKISKAIRRSRV	GLGKPNRPIGSF	LFVGP	482						
NTDB id	378	SMU	RS02690	WP	002263569.1	KLDKENTPVITEKNI	IEVIVEQKTNIPVG	ELKEKEQSQLIHL	ADDLKTRVIGQDA	AVDKIAKAIRNRV	VGLGTPNRPIGSF	LFVGP	489						
NTDB id	241	SP	RS04015	WP	000882523.1	KITDQDTPSISEKTI	IEHIIIEQKTNIPV	GDLEKEEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNRPIGSF	LFVGP	488						
NTDB id	281	KZH43	RS03550	WP	000882517.1	KITDQDTPITISEKTI	IEHIIIEQKTNIPV	GDLEKEEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNRPIGSF	LFVGP	488						
NTDB id	245	SPD	RS03860	WP	000882517.1	KITDQDTPITISEKTI	IEHIIIEQKTNIPV	GDLEKEEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNRPIGSF	LFVGP	488						
NTDB id	243	SPR	RS03635	WP	000882517.1	KITDQDTPITISEKTI	IEHIIIEQKTNIPV	GDLEKEEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNRPIGSF	LFVGP	488						
NTDB id	121626	DF16	RS01445	WP	000971187.1	EQQKGENSEVTVED	IANVVSTWTRIPV	SKLAQTETDKLL	NLESILHDRVIGQD	EAVVAVAKAVRR	ARAGLKDPKRP	IGSFIFLGP	547						
NTDB id	85	BSU	00860	NP	387967.1	EKQGGQENSEVTVDD	IAMVVSSWTGVP	VSKEIAQTETDKLL	NMENILHSRVIGQD	EAVVAVAKAVRR	ARAGLKDPKRP	IGSFIFLGP	546						
NTDB id	610	V4T04	RS10165	WP	012897346.1	VKEDKRQEVTDQAV	VAVASTLTGVPIT	QMTKSESDRLIN	LEKELHKKRVGQEEA	ISAISR	AIRRARSGVADS	RRPMGSFMFLGP	555						
NTDB id	290	KZH43	RS10025	WP	001109677.1	VPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRVIGQD	QAVSSISR	AIRRNQSGIRSH	KRPIGSFMFLGP	550						
NTDB id	289	SPD	RS10700	WP	001109677.1	VPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRVIGQD	QAVSSISR	AIRRNQSGIRSH	KRPIGSFMFLGP	550						
NTDB id	287	SP	RS11210	WP	001109712.1	VPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRVIGQD	QAVSSISR	AIRRNQSGIRSH	KRPIGSFMFLGP	550						
NTDB id	377	SMU	RS09275	WP	002262344.1	PLLKKRAEVKKEED	ILATLSKLSGIPV	KKLTQADSKKYL	NLERELHKKRVIGQD	DAVSSISR	AIRRNQSGIRVG	KRPIGSFMFLGP	553						
NTDB id	297	STER	RS00545	WP	011680614.1	AKFPPKPALVDADQ	IMQTL SRLSGIP	VEKMTQTDSKRYL	NLESELHKKRVIGQD	EAVSAISR	AIRRNQSGIRTG	KRPIGSFMFLGP	556						
NTDB id	329	STU	RS10020	WP	011225298.1	AKFPPKPALVDADQ	IMQTL SRLSGIP	VEKMTQTDSKRYL	NLESELHKKRVIGQD	EAVSAISR	AIRRNQSGIRTG	KRPIGSFMFLGP	556						
consensus						*	*****	*	***	*	*****	*!*	*!*!*****	*	*!*!*****	!*	*	*!*!*****	!!

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NTDB id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQ	LAKELFGSS	ES	SMIRFDMSEYMEKHSV	AKL	ITGAPPGYVGVE	E	AGQLTER	VVRN	PYS	L	ILLDE	TEKAHPDV	MHM	F	L	567	
NTDB id	378	SMU	RS02690	WP	002263569.1	TGVGKTEL	SKQLAIELFGS	ED	SMIRFDMSEYMEKHAV	AKLV	GAPPGYVGVE	E	AGQLTEK	VVRN	PYS	L	ILLDE	VEKAHPDV	MHM	F	L	574	
NTDB id	241	SP	RS04015	WP	000882523.1	TGVGKTEL	SKQLAIELFGS	AD	SMIRFDMSEYMEKHSV	AKLV	GAPPGYVGVE	D	AGQLTEK	VHRN	PYS	L	ILLDE	VEKAHPDV	MHM	F	L	573	
NTDB id	281	KZH43	RS03550	WP	000882517.1	TGVGKTEL	SKQLAIELFGS	AD	SMIRFDMSEYMEKHSV	AKLV	GAPPGYVGVE	D	AGQLTEK	VHRN	PYS	L	ILLDE	VEKAHPDV	MHM	F	L	573	
NTDB id	245	SPD	RS03860	WP	000882517.1	TGVGKTEL	SKQLAIELFGS	AD	SMIRFDMSEYMEKHSV	AKLV	GAPPGYVGVE	D	AGQLTEK	VHRN	PYS	L	ILLDE	VEKAHPDV	MHM	F	L	573	
NTDB id	243	SPR	RS03635	WP	000882517.1	TGVGKTEL	SKQLAIELFGS	AD	SMIRFDMSEYMEKHSV	AKLV	GAPPGYVGVE	D	AGQLTEK	VHRN	PYS	L	ILLDE	VEKAHPDV	MHM	F	L	573	
NTDB id	121626	DF16	RS01445	WP	000971187.1	TGVGKTELARALAE	S	MFGE	ED	AMIRIDMSEYMEKHST	SRLV	GSPPGYVGVE	E	GGQLTEK	VRRK	PYSV	V	LLDE	VEKAHPDV	FNI	L	632	
NTDB id	85	BSU	00860	NP	387967.1	TGVGKTELARALAE	S	IFGE	ES	SMIRIDMSEYMEKHST	SRLV	GSPPGYVGVE	D	EGGQLTEK	VRRK	PYSV	V	LLDE	TEKAHPDV	FNI	L	631	
NTDB id	610	V4T04	RS10165	WP	012897346.1	TGVGKTELAKALADS	V	FGSE	ED	NMIRVDMSEFMEKHST	SRLI	GAPPGYVGVE	D	EGGQLTER	VVRN	KPYSV	V	LLDE	TEKAHPDV	FNI	M	640	
NTDB id	290	KZH43	RS10025	WP	001109677.1	TGVGKTELAKALAE	V	LFDD	ES	ALIRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	E	EGGE	LTEK	VRN	KPYSV	V	LLF	DEVEKAHPD	I	FNV	635
NTDB id	289	SPD	RS10700	WP	001109677.1	TGVGKTELAKALAE	V	LFDD	ES	ALIRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	E	EGGE	LTEK	VRN	KPYSV	V	LLF	DEVEKAHPD	I	FNV	635
NTDB id	287	SP	RS11210	WP	001109712.1	TGVGKTELAKALAE	V	LFDD	ES	ALIRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	E	EGGE	LTEK	VRN	KPYSV	V	LLF	DEVEKAHPD	I	FNV	635
NTDB id	377	SMU	RS09275	WP	002262344.1	TGVGKTELAKALAE	V	LFDD	ES	ALIRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	E	EGGE	LTEK	VRN	KPYSV	V	LLF	DEVEKAHPD	I	FNV	638
NTDB id	297	STER	RS00545	WP	011680614.1	TGVGKTELAKALAE	V	LFDD	ES	ALRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	D	EGGE	LTEK	VRN	KPYSV	V	LLF	DETEKAHPD	I	FNV	641
NTDB id	329	STU	RS10020	WP	011225298.1	TGVGKTELAKALAE	V	LFDD	ES	ALRFDMSEYMEKFAA	SRLN	GAPPGYVGVE	D	EGGE	LTEK	VRN	KPYSV	V	LLF	DETEKAHPD	I	FNV	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 121626 DF16 RS01445 WP 000971187.1	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