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NTDB id 1284	ACE17W	RS12370	WP	010946666.1	MRKIIIAILIL..ISASLSMAYSKDNSLISVKVLP LPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 1257	GCO85	RS04855	WP	163621000.1	MRKIIIAILIL..ISASLSLAYSKDNSLISVKVLP LPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 83399	VNTUMSATTG	RS17165	WP	200766247.1	.....	0
NTDB id 1186	GTF74	RS01320	WP	000788426.1	.....	0
NTDB id 1175	A1552VC	RS12105	WP	000788426.1	.....	0
NTDB id 1408	DSB67	RS13980	WP	010643500.1	.....	0
NTDB id 1193	PAKAF	RS26665	WP	003161249.1	MNSGLSRLGIALIAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKIGT..	76
NTDB id 1009	ACTAD	RS15175	WP	004923730.1	MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLAK..	77
NTDB id 1052	ABD1	RS15850	WP	001017033.1	MNHVFRQFSMGAVAIAIMQAAQAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..	77
NTDB id 1039	HON27	RS01460	WP	031993779.1	MNHVFRQFSMGAVAIAIMQAAQAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..	77
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NTDB id 1284	ACE17W	RS12370	WP	010946666.1	KTKT	IQLGSLH	SYN	IVAVGDR	VRRAI	LELD	RSVS	YSGSTA	GSIIY	SLVLNGK	SNDLFENS		KEVFITNQV	145					
NTDB id 1257	GCO85	RS04855	WP	163621000.1	KTKT	IQLGSLH	SYN	IVAVGDR	VRRAI	LELD	RSVS	YSGSTA	GSVY	SLVLNGK	SNDLFENS		KEVFITNQV	145					
NTDB id 83399	VNTUMSATTG	RS17165	WP	200766247.1	.....	.....	.....	MAEFC	RAH	..IY	R	CALLIFT	GL	.....	.....	FSTTGV	26						
NTDB id 1186	GTF74	RS01320	WP	000788426.1	.....	.....	.....	MKNGL	..KT	..YVAQ	TWL	TLWV	GLAL	.....	.....	ASSMVFSAE	32						
NTDB id 1175	A1552VC	RS12105	WP	000788426.1	.....	.....	.....	MKNGL	..KT	..YVAQ	TWL	TLWV	GLAL	.....	.....	ASSMVFSAE	32						
NTDB id 1408	DSB67	RS13980	WP	010643500.1				MKMRHGL	..TLTP	RKLT	GLF	SLWFS	L		A		P	FVAEE	33				
NTDB id 1193	PAKAF	RS26665	WP	003161249.1	KNREL	SVGNTR	SVT	VVEAKD	RTRLI	INL	TTLSS	Y	TRVE	GNNLFV	VVGN	SPAGASVASTAPVKASPAPASYAQPIKPKPY	156						
NTDB id 1009	ACTAD	RS15175	WP	004923730.1	SLIP	VTTNEAS	SID	VSSDDK	RARVV	VNL	KDAGA	FTTR	VEGN	V	FILK	INNIQ	STAT		PVAT	..SA		138	
NTDB id 1052	ABD1	RS15850	WP	001017033.1	SKIS	VATNEAS	SVD	VTSDDQ	RSRLT	VNL	KDAGA	FTTR	VEGN	T	FILK	INSAQ	TSNK		PLPV	..VS		138	
NTDB id 1039	HON27	RS01460	WP	031993779.1	SKIS	VATNEAS	SVD	VTSDDQ	RSRLT	VNL	KD	TGA	FTTR	VEGN	T	FILK	INSAQ	TSNK		PLPV	..VS		138
consensus					*		*		***	*	*	*	*	*****	***	*							

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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	VNAKHEIKR	IDFRGIEKQGGR	VLIDVSD	TGIP	IDVTQVGKE	IVVNFLNT	TKIPLN	LMKRYDVS	DFHSPVQIIT	MQEGKKV	225
NTDB id 1257	GCO85	RS04855	WP 163621000.1	VNAKHEIKR	IDFRGIEKQGGR	VLIDVSD	TGIP	IDVTQVGKE	IVVNFLNT	TKIPLN	LMKRYDVS	DFHSPVQIIT	MQEGKKV	225
NTDB id 83399	VNTUMSATTG	RS17165	WP 200766247.1	HAQSN	EFVGI	DFRLSKEKH	ALLV	VELASNA	AAVD	IQMP	PDGLN	ISLHETS	SVVDEKLFV	VDVS
NTDB id 1186	GTF74	RS01320	WP 000788426.1	SATAN	QLEN	IDFRVNKEKA	AVL	IVELAS	PSAV	VDVQKV	QEGSL	IELLKT	TDVAD	DKLYL
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	SATAN	QLEN	IDFRVNKEKA	AVL	IVELAS	PSAV	VDVQKV	QEGSL	IELLKT	TDVAD	DKLYL
NTDB id 1408	DSB67	RS13980	WP 010643500.1	EVQSN	SLKS	IDFRTNKDK	DAV	IVVEL	VSPA	AVD	IKR	VQEGSL	SIDLNT	SVKDDQ
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	VPAGRA	IRN	IDFQRGEKG	EGNVV	IDLSD	PTLSPD	IQEQ	GKKIR	LDFAK	TQLP	DALRV
NTDB id 1009	ACTAD	RS15175	WP 004923730.1	PAPQQ	GIGN	IGFQRGAQG	EGLV	VIDL	QGTT	PVDV	QQGSK	VVRF	PGIK	IPHTH
NTDB id 1052	ABD1	RS15850	WP 001017033.1	.AQP	QGVSN	IGFQRGSQG	EGLV	VVDLL	GSNT	PVDV	QQGSK	VVIRT	IGTK	IPHTH
NTDB id 1039	HON27	RS01460	WP 031993779.1	.AQP	QGVSN	IGFQRGSQG	EGLV	VVDLL	GSNT	PVDV	QQGSK	VVIRT	IGTK	IPHTH
consensus				*	*	*	!	*	!	*	*	*	*	*

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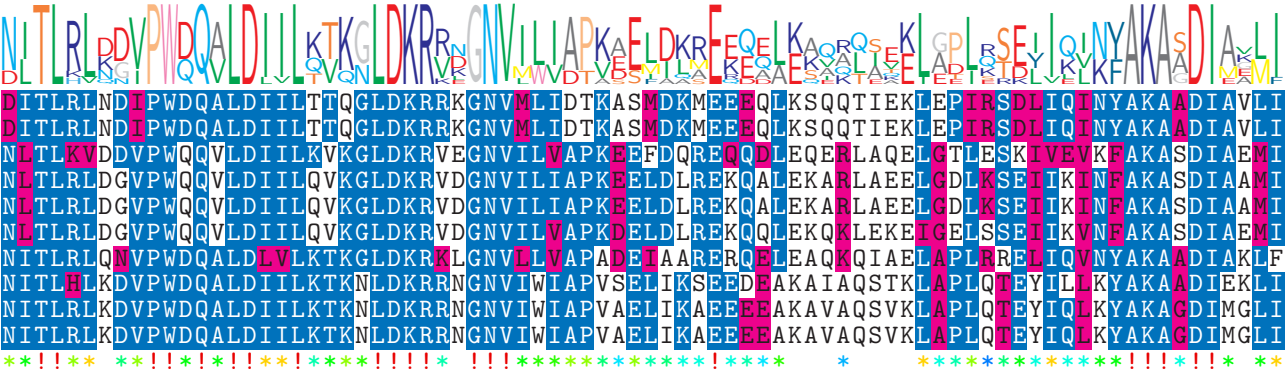
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NTDB id	1257	GC085	RS04855	WP	163621000.1
NTDB id	83399	VNTUMSATTG	RS17165	WP	200766247.1
NTDB id	1186	GTF74	RS01320	WP	000788426.1
NTDB id	1175	A1552VC	RS12105	WP	000788426.1
NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
NTDB id	1009	ACIAD	RS15175	WP	004923730.1
NTDB id	1052	ABD1	RS15850	WP	001017033.1
NTDB id	1039	HON27	RS01460	WP	031993779.1
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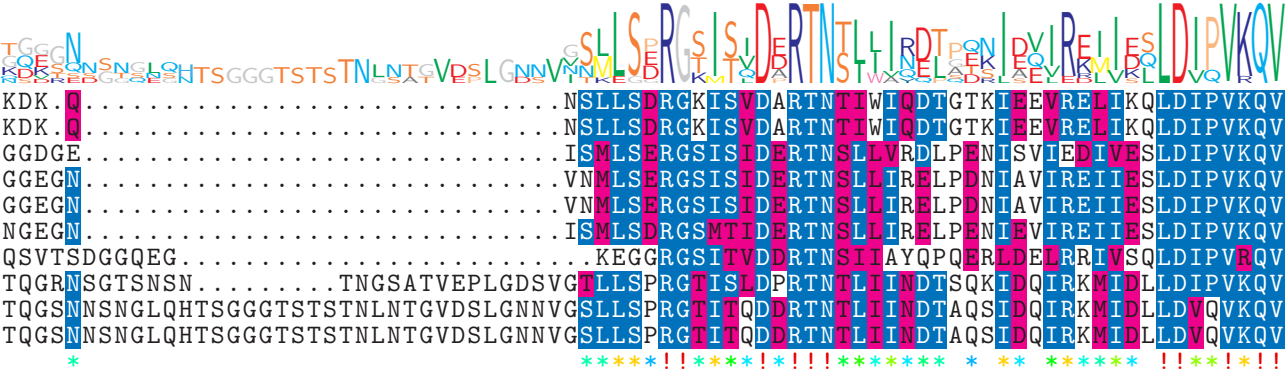
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NTDB id	1257	GC085	RS04855	WP	163621000.1
NTDB id	83399	VNTUMSATTG	RS17165	WP	200766247.1
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NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
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NTDB id	1052	ABD1	RS15850	WP	001017033.1
NTDB id	1039	HON27	RS01460	WP	031993779.1
consensus					



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NTDB id	1284	ACE17W	RS12370	WP	010946666.1
NTDB id	1257	GC085	RS04855	WP	163621000.1
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NTDB id	1009	ACIAD	RS15175	WP	004923730.1
NTDB id	1052	ABD1	RS15850	WP	001017033.1
NTDB id	1039	HON27	RS01460	WP	031993779.1
consensus					



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NTDB id	1284	ACE17W	RS12370	WP	010946666.1	LIEARIVEVTKDFSQDIGIRWGVS	RPTH.....	LSGTLEGAN....ELAR.....	GTAPANVVPLERRLNLD	492	
NTDB id	1257	GCO85	RS04855	WP	163621000.1	LIEARIVEVTKDFSQDIGIRWGVS	RPTH.....	LSGTLEGAN....ELAR.....	GTAPANVVPLERRLNLD	492	
NTDB id	83399	VNTUMSATTG	RS17165	WP	200766247.1	QIEARIVTVTEGELEELGVRWGFSS	STSGPNS...VGATIENNLIATVGLYQAGGS	GGDSGGEGGDEGGGGSTS	IDDFLAVN	391	
NTDB id	1186	GTF74	RS01320	WP	000788426.1	QIEARIVTVKEGNLEELGVRWGVMS	TNGSHS...VGGSIENSLWKGLLAD.....	DEFPPVDEFLNVN	381		
NTDB id	1175	A1552VC	RS12105	WP	000788426.1	QIEARIVTVKEGNLEELGVRWGVMS	TNGSHS...VGGSIENSLWKGLLAD.....	DEFPPVDEFLNVN	381		
NTDB id	1408	DSB67	RS13980	WP	010643500.1	QIEARIVTINEGNMDELGVRWGFTS	SINGSHS...VGGSIENNLIATIGLYDGGGEGDD.....	GGSSVGIIDDFLNVN	390		
NTDB id	1193	PAKAF	RS26665	WP	003161249.1	MIEARIVEANVGYDKSLGVRWGGAYH	KGNWSG...YGKDGN.IGIKDEDGMNCGP	IA...GSCTFPPTTGTSKSPSPFVD	522		
NTDB id	1009	ACTIAD	RS15175	WP	004923730.1	MIEARIVRATTSFSKEMGVKWGILS	QGGINQNSNLVVGSEETTLWNLRNP	D...SN.....GTYTI...ERPDLNVND	514		
NTDB id	1052	ABD1	RS15850	WP	001017033.1	MVEARIVRASTSFTELKGVKWGILS	QGGINNNNLVVGSEETTLWNLRREP	K...KDETT...GGYKYTI...ERPDLNVND	527		
NTDB id	1039	HON27	RS01460	WP	031993779.1	MVEARIVRASTSFTELKGVKWGILS	QGGINNNNLVVGSEETTLWNLRREP	K...KDETT...GGYKYTI...ERPDLNVND	527		
consensus						***!!!!	* ** *	** ! * ! * ! * ! *	* * *	* * * * * * * * * *	* * * *

NTDB id	1284 ACE17W RS12370 WP 010946666.1	LAAAPL	TGATPA	SVGI	AALAKLNDNI	LLDLELSALES	EGRAELISSPRLITTNQQA	AVIESGEEIPYQEATSSGA...TAV	569
NTDB id	1257 GCO85 RS04855 WP 163621000.1	LA AVPL	TGATPA	SVGI	AALAKLNDNI	LLDLELSALES	EGRAELISSPRLITTNQQA	AVIESGEEIPYQEATSSGA...TAV	569
NTDB id	83399 VNTUMSAT TG RS17165 WP 200766247.1	LGA...	TNANAA	SIAFQVAKLGSDT	LLDLELSAQTENKAEI	ISSPRLITTNKPAYIEQGTEIPYLEASSSGA...TTV	465		
NTDB id	1186 GTF74 RS01320 WP 000788426.1	LAS...	TSANASSIAFQVAKLGS	GTLLDLELSALQNESKAEI	ISSPRLITTNKQPAYIEQGTEIPYLESSSGA...STV	455			
NTDB id	1175 A1552VC RS12105 WP 000788426.1	LAS...	TSANASSIAFQVAKLGS	GTLLDLELSALQNESKAEI	ISSPRLITTNKQPAYIEQGTEIPYLESSSGA...STV	455			
NTDB id	1408 DSB67 RS13980 WP 010643500.1	LAA...	TSPNATSIAFQVAKLGSDT	LLDLELSALQQESKAEI	ISSPRLITTNKPAYIEQGTEIPYLESSSGA...TSV	464			
NTDB id	1193 PAKAF RS26665 WP 003161249.1	LGA...	KDA.TSGIGICFI.T.DNI	IIDLQLSAM EKTGNCEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TST	593				
NTDB id	1009 ACTAD RS15175 WP 004923730.1	LGV...	TTTGAS	SIAFGLISL.SDFM	LDLELSALQADGYGEVISTPKVM SADKKAKVATGVEVPYQSTINSAGSTATT	590			
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NTDB id	1039 HON27 RS01460 WP 031993779.1	LGV...	SNP.AGSIAFGLISM.SDFM	LDLELSALQADGYGEVISTPKVMTADKQTAKVATGGQVPYPYSTNSAGSTATT	602				
consensus							!*** * * * **** ** !!!!!!!** ***** !!!!!!***** !! *		

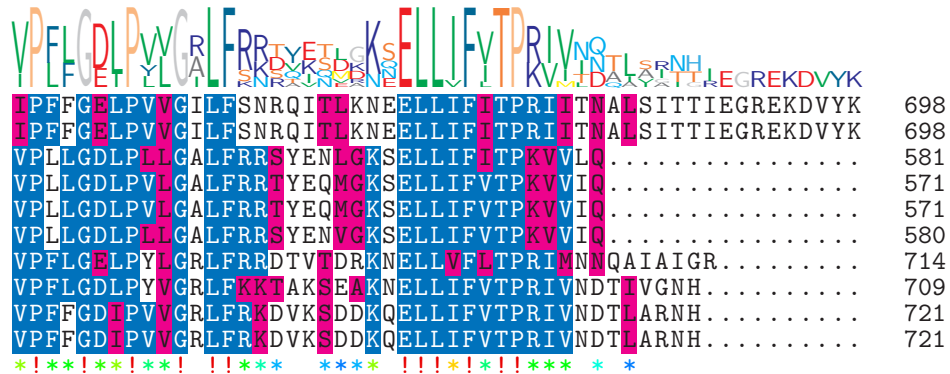
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NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
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NTDB id 1186 GTF74 RS01320 WP 000788426.1
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NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus

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-  non conserved
-  similar
-  $\geq 50\%$ conserved