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NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MNSGLSRLG	TALL	.AAM	FAPALLAAD	LEK	IDVAA	IPGDRVE	LKLQ	FDEP	V	.AAPRG	YTIEQ	PARTIAL	DLPGVQNK	IGTKN	78					
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 1257	GC085	RS04855	WP 163621000.1	MRK	IIAILI	LISASLS	L	..AY	SKDNS	LIS	VKVL	LP	PENRVR	IDFQ	FSKP	LKQL	PAS	FITQK	PPRL	VLD	FISTDMQ	IPSDQ	78	
NTDB id 1284	ACE17W	RS12370	WP 010946666.1	MRK	IIAILI	LISASLS	M	..AY	SKDNS	LIS	VKVL	LP	PENRVR	IDFQ	FSKP	LKQL	PAS	FITQK	PPRL	VLD	FISTDMQ	IPSDQ	78	
NTDB id 145256	AAX05	RS02850	WP 080946075.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	MKQ	IIRQFS	IGTVAYA	IMQVA	SAQVA	ITN	VVPM	NI	IPG	QTE	IRVM	F	.NGL	LPPQ	PQAY	QLEQ	PARLI	LD	FDKAGQK	LAKSL	79
NTDB id 1039	HON27	RS01460	WP 031993779.1	MNH	VFRQFS	MGAVAIA	IMQAAS	AQVSM	TNI	IVPM	QI	AG	QTE	IRVM	F	.NGL	LPPQ	PQAY	QLEN	PSRLI	LD	FDKAQQGL	LKQSK	79
NTDB id 1052	ABD1	RS15850	WP 001017033.1	MNH	VFRQFS	MGAVAIA	IMQAAS	AQVSM	TNI	IVPM	QI	AG	QTE	IRVM	F	.NGL	LPPQ	PQAY	QLEN	PSRLI	LD	FDKAQQGL	LKQSK	79
consensus				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

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NTDB id 1193	PAKAF	RS26665	WP 003161249.1	..RE	LSVGNTR	SVT	VVEAKDR	TRLI	IN	LTTLSS	YT	TRVEGN	NLFV	VGN	SPAGAS	VASTAPVK	KASPAPASYAQPIKPKPY	156
NTDB id 1186	GTF74	RS01320	WP 000788426.1	.....	.....	.....	.....	.....	.....	MKNG	LKT	..YVAQTW	TLW	VGLAL	.....	CASSM	VF.SAE	32
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	.....	.....	.....	.....	.....	.....	MKNG	LKT	..YVAQTW	TLW	VGLAL	.....	CASSM	VF.SAE	32
NTDB id 1408	DSB67	RS13980	WP 010643500.1	.....	.....	.....	.....	.....	.....	MKMRH	GLTL	TPRKLT	GLFSL	WFSLL	.....	AP	FV.AAE	33
NTDB id 1257	GC085	RS04855	WP 163621000.1	KTKT	IQLGSLH	SYN	IVAVGDR	VRRAI	EL	DRSVS	YS	GSTAGSV	SVSLV	NGKSN	DLFENSKEV	.....	FITNQV	145
NTDB id 1284	ACE17W	RS12370	WP 010946666.1	KTKT	IQLGSLH	SYN	IVAVGDR	VRRAI	EL	DRSVS	YS	GSTAGSV	SVSLV	NGKSN	DLFENSKEV	.....	FITNQV	145
NTDB id 145256	AAX05	RS02850	WP 080946075.1	IP.	..	VTTNEAS	SID	VSSDDK	RARVV	VNLKD	AGA	FTTRVEGN	VFI	LKIN	NIQSTA	...TP	.....	0
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	IS.	..	VATNEAS	SVD	VTSDDQ	RSRLT	VNLKDTGA	FTTRVEGN	TFILK	INSAQTSN	...KP	.....	LPVVS	138	
NTDB id 1039	HON27	RS01460	WP 031993779.1	IS.	..	VATNEAS	SVD	VTSDDQ	RSRLT	VNLKDTGA	FTTRVEGN	TFILK	INSAQTSN	...KP	.....	LPVVS	138	
NTDB id 1052	ABD1	RS15850	WP 001017033.1	IS.	..	VATNEAS	SVD	VTSDDQ	RSRLT	VNLKDTGA	FTTRVEGN	TFILK	INSAQTSN	...KP		LPVVS	138	
consensus				*	*	*	*	*	*	*	*	*	*	*	*	*	*	

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NTDB id 1193	PAKAF	RS26665	WP 003161249.1	VPAGRA	I	R	N	I	D	F	Q	R	G	E	K	G	E	G	N	V	V	I	D	L	S	D	P	T	L	S	P	D	I	Q	E	Q	G	G	K	I	R	L	D	F	A	K	T	Q	L	P	D	A	L	R	V	R	L	D	V	K	D	F	A	T	P	V	Q	F	V	N	A	S	A	Q	S	D	R	T	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1186	GTF74	RS01320	WP 000788426.1	SATAN	Q	L	E	N	I	D	F	R	V	N	K	E	K	A	A	V	L	I	V	E	L	A	S	P	S	A	V	V	D	V	Q	K	V	Q	E	G	L	S	I	E	L	L	K	T	D	V	A	D	D	K	L	Y	L	L	D	V	K	D	F	S	T	P	V	E	S	V	E	V	F	R	K	E	P	S	T	112																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	SATAN	Q	L	E	N	I	D	F	R	V	N	K	E	K	A	A	V	L	I	V	E	L	A	S	P	S	A	V	V	D	V	Q	K	V	Q	E	G	L	S	I	E	L	L	K	T	D	V	A	D	D	K	L	Y	L	L	D	V	K	D	F	S	T	P	V	E	S	V	E	V	F	R	K	E	P	S	T	112																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1408	DSB67	RS13980	WP 010643500.1	EVQSN	S	L	K	S	I	D	F	R	T	N	K	D	K	D	A	V	I	V	E	L	V	S	P	A	A	I	V	D	I	K	R	V	Q	E	G	L	S	I	D	L	L	N	T	S	V	K	D	D	Q	L	Y	L	L	D	V	K	D	F	S	T	V	V	E	S	V	E	V	F	R	D	T	S	T	113																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1257	GC085	RS04855	WP 163621000.1	VNAKHE	I	K	R	I	D	F	R	G	I	E	K	Q	G	G	R	V	L	I	D	V	S	D	T	G	I	P	I	D	V	T	Q	V	G	K	E	I	V	V	N	F	L	N	T	K	I	P	L	N	L	M	K	R	Y	D	V	S	D	F	H	S	P	V	Q	I	I	T	M	Q	Q	E	G	K	K	V	225																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1284	ACE17W	RS12370	WP 010946666.1	VNAKHE	I	K	R	I	D	F	R	G	I	E	K	Q	G	G	R	V	L	I	D	V	S	D	T	G	I	P	I	D	V	T	Q	V	G	K	E	I	V	V	N	F	L	N	T	K	I	P	L	N	L	M	K	R	Y	D	V	S	D	F	H	S	P	V	Q	I	I	T	M	Q	Q	E	G	K	K	V	225																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 145256	AAX05	RS02850	WP 080946075.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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NTDB id 1193 PAKAF RS26665 WP 003161249.1
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 1257 GCO85 RS04855 WP 163621000.1
NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 145256 AAX05 RS02850 WP 080946075.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
consensus

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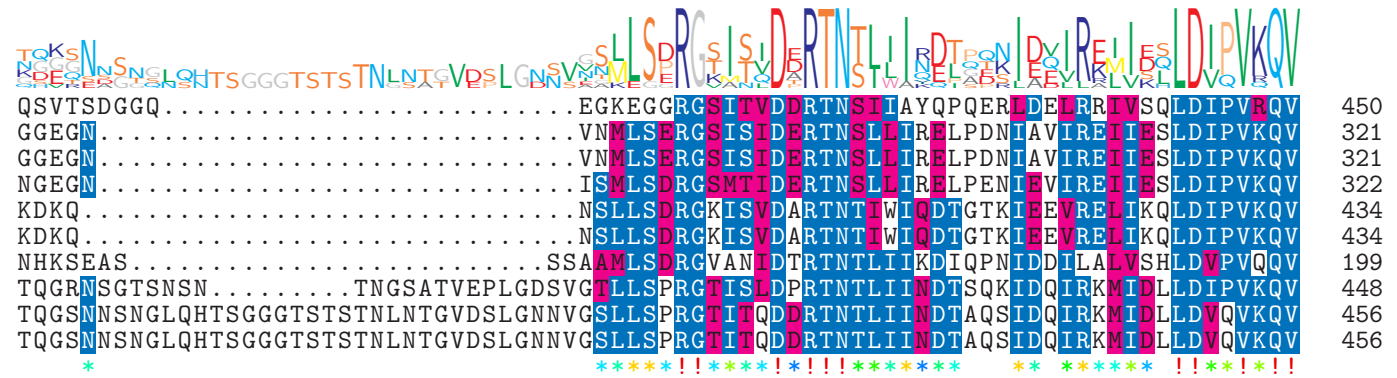
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NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 145256 AAX05 RS02850 WP 080946075.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
consensus

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NTDB id 1193 PAKAF RS26665 WP 003161249.1
NTDB id 1186 GTF74 RS01320 WP 000788426.1
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NTDB id 1408 DSB67 RS13980 WP 010643500.1
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NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
consensus
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NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MIEARIVEANVGYDKSLGVRWGGAYHKGN.....WSGYGK.DG...NIGIKDEDDGMNCGPIAGSCTFPTTGTSKSPS	518
NTDB id 1186	GTF74	RS01320	WP 000788426.1	QIEARIVTVKEGNLEELGVRWGVMTN.....GSHSVGGSIESNLWQKGLLAD.....DEFPV.....DEF	377
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	QIEARIVTVKEGNLEELGVRWGVMTN.....GSHSVGGSIESNLWQKGLLAD.....DEFPV.....DEF	377
NTDB id 1408	DSB67	RS13980	WP 010643500.1	QIEARIVTINEGNMDELGVRWGFTSIN.....GSHTVGGSIIENNLATITGLYDGGG..EG.DDGGSSVGI....DDF	386
NTDB id 1257	GC085	RS04855	WP 163621000.1	LIEARIVEVTKDFSQDIGIRWGVSRPTHLSGTLEGANELARGTAPA.....NVVPLE...R..R	488
NTDB id 1284	ACE17W	RS12370	WP 010946666.1	LIEARIVEVTKDFSQDIGIRWGVSRPTHLSGTLEGANELARGTAPA.....NVVPLE...R..R	488
NTDB id 145256	AAx05	RS02850	WP 080946075.1	MIEARIVSANDGFSHDLGVSGVLSN.....SNRLQIGGSHNALWHLRSSNN.....GSTNIT...RPDH	256
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	MIEARIVRATTSFSKEMGVKKGILSQGIN.....QNSNLLVGGSETTLWNLRNPDSN.....GTYTIE...RPDN	510
NTDB id 1039	HON27	RS01460	WP 031993779.1	MVEARIVRASTFTKELGVKKGILSQGIT.....NNNNLLVGGSETTLWNLRREPCKDE....TTGGYKYTIE...RPDN	523
NTDB id 1052	ABD1	RS15850	WP 001017033.1	MVEARIVRASTFTKELGVKKGILSQGIT.....NNNNLLVGGSETTLWNLRREPCKDE....TTGGYKYTIE...RPDN	523
consensus				***!!!! *	

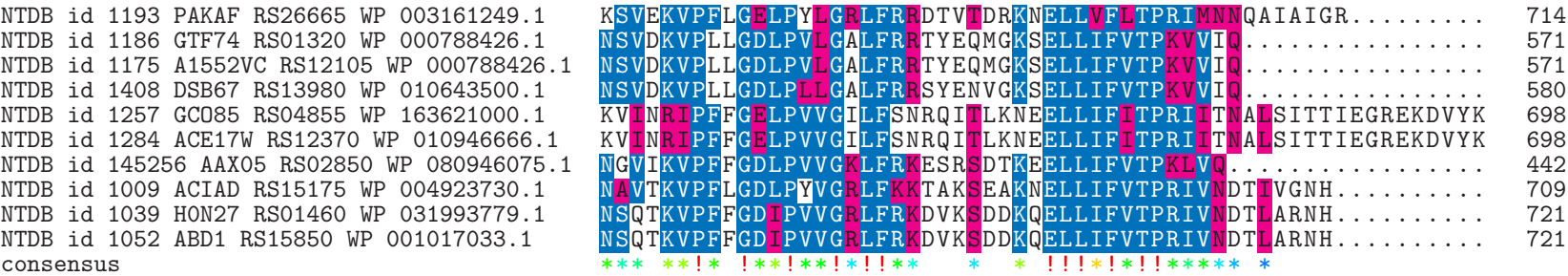
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NTDB id 1193	PAKAF	RS26665	WP 003161249.1	PFVDLG	AKDATSGIGIGFI..TDNI	ILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA	590				
NTDB id 1186	GTF74	RS01320	WP 000788426.1	LNVNLA	STSANASSIAFQVAKLGS	LLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSSSGA	452				
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	LNVNLA	STSANASSIAFQVAKLGS	LLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSSSGA	452				
NTDB id 1408	DSB67	RS13980	WP 010643500.1	LNVNLA	ATSPNATSIAFQVAKLGS	LLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSSSGA	461				
NTDB id 1257	GC085	RS04855	WP 163621000.1	LNLDLA	AAVPLTGATPASVGIALAKL..NDNI	LLDLELSALESEGRAELISSPRLITTNQAAVIESGEEIPYQEATSSGA	566				
NTDB id 1284	ACE17W	RS12370	WP 010946666.1	LNLDLA	AAVPLTGATPASVGIALAKL..NDNI	LLDLELSALESEGRAELISSPRLITTNQAAVIESGEEIPYQEATSSGA	566				
NTDB id 145256	AAx05	RS02850	WP 080946075.1	LAVDLG	VANP.AGRIAFGLIN.ISDV	LLDLELSAMQADRRGEVISTPKVLTADKQTARISSGMQIAYQEETSSGA	329				
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	LNVDLG	VTTTGASSIAFGLIS.LSDF	MLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAA	584				
NTDB id 1039	HON27	RS01460	WP 031993779.1	LNVDLG	VSNP.AGSIAFGLIS.MSDF	MLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAA	596				
NTDB id 1052	ABD1	RS15850	WP 001017033.1	LNVDLG	VSNP.AGSIAFGLIS.MSDF	MLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAA	596				
consensus				*****!	***	*****!*****	**	*****!*****!*****	**	!*****!	*****!*****!*

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NTDB id 1193	PAKAF RS26665 WP 003161249.1	...	TSTSFKEAAALSLEVTPQITPDNRRIIVEVKVTKDAPDYQNMLN..GVPPINKNEVNAKILVNDGETIVIGGVFSNEQS	665		
NTDB id 1186	GTF74 RS01320 WP 000788426.1	...	STVAFKKAVLSLKVTPQITPDNRRLVLDLSVTQDRRGETVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSIN	529		
NTDB id 1175	A1552VC RS12105 WP 000788426.1	...	STVAFKKAVLSLKVTPQITPDNRRLVLDLSVTQDRRGETVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSIN	529		
NTDB id 1408	DSB67 RS13980 WP 010643500.1	...	TSVTFKKAVLSLKVTPQITPDNRRLVLDLSVTQDRPGQVVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSIT	538		
NTDB id 1257	GC085 RS04855 WP 163621000.1	...	TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSPQTFLG...VPAIITKEIQTNVLVNNGETIVLGGIYKQDKN	640		
NTDB id 1284	ACE17W RS12370 WP 010946666.1	...	TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSPQTFLG...VPAIITKEIQTNVLVNNGETIVLGGIYKQDKN	640		
NTDB id 145256	AAx05 RS02850 WP 080946075.1	...	TNTVFKEAALVLEATPTITPDGKITLKNVKNTP..VTNLG...ETAIQEDALETNVIIDDGQTVVLGGIYRQTNN	401		
NTDB id 1009	ACIAD RS15175 WP 004923730.1	GSTAT	TSFKEAALLSLEVTPNITPDGKILMELNIANDSINSYAQNG...EAILNKNTINTNVLVNNGETVVLGGVFEQITN	661		
NTDB id 1039	HON27 RS01460 WP 031993779.1	GSTAT	TSFKEALLSLNVTPSITPDGKIQMKLISKDSVAGAAPNG...ELILNKNNINTNVLVDNGETVILGGVFEQITM	673		
NTDB id 1052	ABD1 RS15850 WP 001017033.1	GSTAT	TSFKEALLSLNVTPSITPDGKIQMKLISKDSVAGAAPNG...ELILNKNNINTNVLVDNGETVILGGVFEQITM	673		
consensus		**	*!*****!*****	*****	*	* ***** *****!***!*****!*** ** *

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X non conserved
X similar
X ≥ 50% conserved