

NTDB	id	600	KW2	RS01765	WP	011675413.1	MATK...	KKTNFDDITKKYGA	ERDKALAD	ALAL	IEKD	FGKG	SLMR	LG	EAANQ	K	VSV	VSSGSL	ALD	I	ALG	AGGY	PK	GR	75																																										
NTDB	id	269	KZH43	RS08665	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	228	SPD	RS09265	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	194	SPR	RS08825	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	159	SP	RS09750	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	.MAK...	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	499	SM12261	RS08315	WP	078228268.1	.MAK...	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	SGGY	PK	GR	74																																										
NTDB	id	453	Spy49	1753c	ACI62003.1		.MAK...	KLKKNEEITKKFGD	ERRKALDD	ALKN	IEKD	FGKG	AVMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	AGGY	PK	GR	74																																										
NTDB	id	408	SMU	RS09530	WP	002262392.1	.MAK...	RIKKTEEITKKFGD	ERRKALDD	ALKN	IEKD	FGKG	AVMR	LG	ERAEQ	K	VQV	MSSGSL	ALD	I	ALG	AGGY	PK	GR	74																																										
NTDB	id	115	BSU	16940	NP	389576.2			MS	DRQAALD	MA	LKQ	IEK	Q	SIM	KLGE	KTD	T	R	IST	VPSG	SL	ALD	T	ALG	IGGY	PR	GR	59																																						
NTDB	id	625	LCA	RS02525	WP	011374196.1			MAKD	ERQAALDA	AL	KK	IEK	N	FGK	S	IMR	MGE	KV	D	T	Q	VST	VSSG	SL	AL	DE	AL	GV	GGY	PR	GR	61																																		
NTDB	id	1313	DR	RS12030	WP	010888966.1			MSKDATKEISAP	TDAK	ERSK	AI	ET	AMS	Q	IEK	A	FGK	S	IM	KL	G	A	E	S	K	L	D	V	Q	V	V	T	G	S	L	S	L	D	L	A	L	G	V	G	G	I	P	R	GR	73																
NTDB	id	1245	Cj1673c	YP	002345041.1				MDDN	KR	KS	L	D	A	A	L	K	S	L	D	K	T	I	L	R	L	G	D	K	E	V	E	Q	I	D	S	I	G	T	G	S	V	G	L	D	L	A	L	G	I	G	G	V	P	K	GR	60										
NTDB	id	1214	NCTC11637	00359	SQJ03206.1				MAIDE	DK	Q	K	A	I	S	L	A	I	K	Q	I	D	K	V	F	G	K	A	L	V	R	L	G	D	K	Q	V	E	K	I	D	A	I	S	T	G	S	L	G	L	D	L	A	L	G	I	G	G	V	P	K	GR	62				
NTDB	id	1211	C694	RS00795	WP	000963128.1			MAIDE	DK	Q	K	A	I	S	L	A	I	K	Q	I	D	K	V	F	G	K	A	L	V	R	L	G	D	K	Q	V	E	K	I	D	A	I	S	T	G	S	L	G	L	D	L	A	L	G	I	G	G	V	P	K	GR	62				
NTDB	id	1334	RAOC	RS04870	WP	000918236.1			MAKT	ET	T	S	P	N	D	DKK	K	A	L	A	A	V	L	E	K	L	D	K	T	Y	G	K	T	V	M	K	L	G	D	G	T	V	D	H	N	I	E	V	I	P	S	G	L	G	L	D	L	A	L	G	V	G	G	P	K	GR	69
NTDB	id	1389	A4U84	RS07560	WP	021112712.1			MAENKKSSKN	N	T</																																																								

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
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NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 271125 C4C66 RS06610 WP 003812760.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

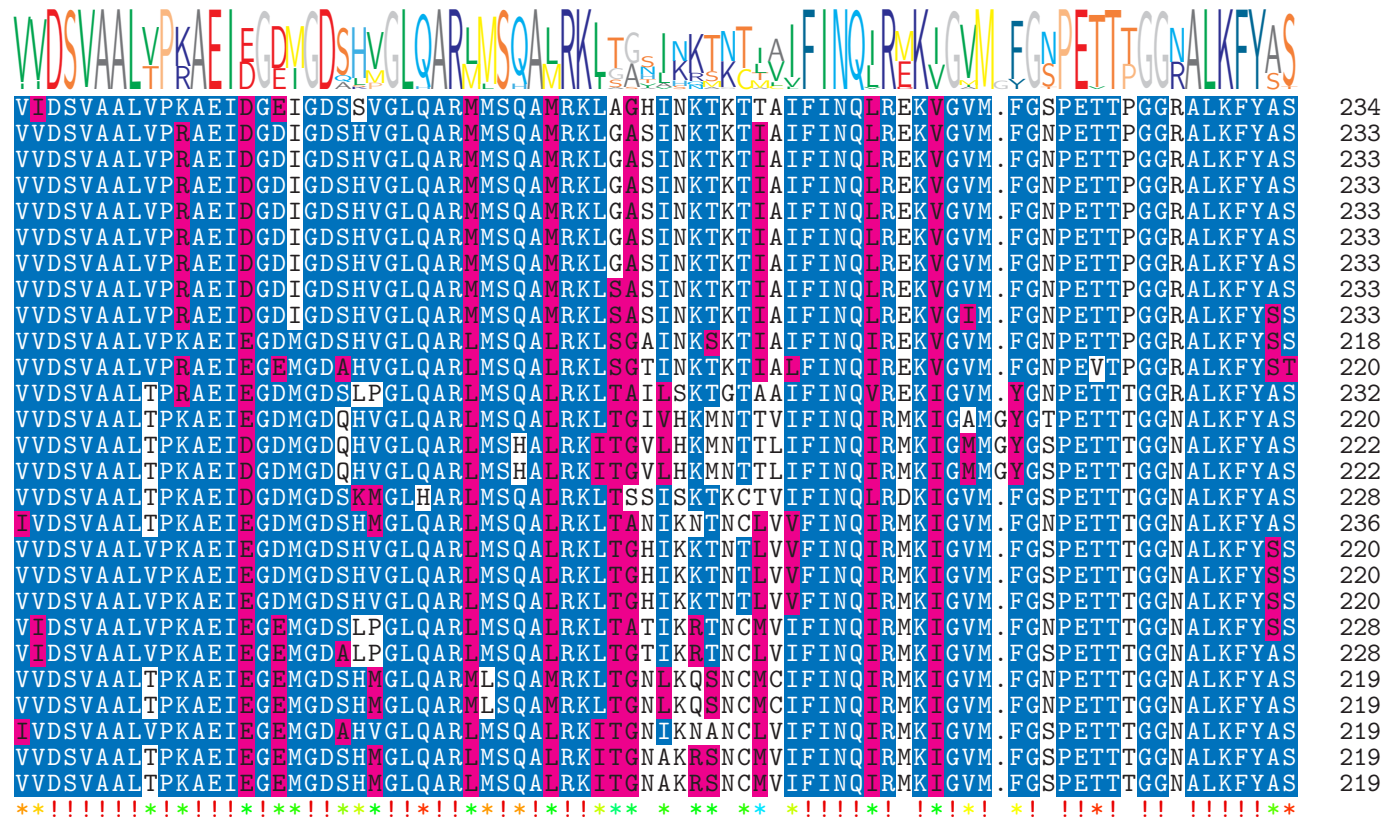
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consensus

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NTDB id 194 SPR RS08825 WP 001085462.1	VR	L	D	V	R	G	N	T	Q	I	K	G	T	G	.	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	T	K	K	A	G	A	W	Y	S	Y	K	D	312								
NTDB id 159 SP RS09750 WP 001085462.1	VR	L	D	V	R	G	N	T	Q	I	K	G	T	G	.	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	T	K	K	A	G	A	W	Y	S	Y	K	D	312								
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NTDB id 115 BSU 16940 NP 389576.2	VR	L	E	V	R	R	A	E	Q	L	K	Q	G	N	.	.	.	.	.	.	D	M	G	N	K	T	K	I	K	V	V	K	N	K	V	A	P	P	F	R	T	A	E	V	D	I	M	Y	G	E	G	I	S	K	E	G	E	I	I	D	L	G	T	E	L	D	I	V	Q	K	S	G	S	W	Y	S	Y	E	E	293								
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	VR	L	D	I	R	R	C	G	V	.	.	.	.	.	.	.	.	.	.	V	.	K	D	G	.	D	E	I	I	G	S	E	T	K	V	K	V	V	K	N	K	V	A	P	P	F	R	E	V	Q	F	D	I	M	Y	G	E	G	I	S	R	M	N	E	L	L	I	L	A	E	A	N	G	F	I	T	K	K	S	G	A	W	F	S	Y	D	G	311
NTDB id 1130 NGFG RS03960 WP 003688695.1	VR	L	D	I	R	R	T	G	S	.	.	.	.	.	.	.	.	.	.	I	.	K	K	G	.	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	Y	N	G	295	
NTDB id 1124 NGFG RS03960 WP 003688695.1	VR	L	D	I	R	R	T	G	S	.	.	.	.	.	.	.	.	.	.	I	.	K	K	G	.	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	Y	N	G	295	
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NTDB id 1205 PSJM300 05545 AFN77183.1	VR	L	D	I	R	R	T	G	A	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	.	D	E	V	V	G	S	E	T	R	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	Y	A	Y	K	G	294		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VR	L	D	I	R	R	I	G	Q	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	.	D	E	I	I	G	S	E	T	K	V	K	V	K	N	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	N	I	V	Q	K	A	G	A	W	Y	S	Y	Q	G	294		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VR	L	D	I	R	R	I	G	Q	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	.	D	E	I	I	V	G	S	E	T	K	V	K	V	K	N	K	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D</															

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAE..	TEEETTAS	TKAKAKKEEK	AVETEEIELE	LED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSE..	QDTENKKD	E....PKKEEA..	VNEEVPLDLG	DELEI	384
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSE..	QDTENKKD	E....PKKEEA..	VNEEVPLDLG	DELEI	384
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSE..	QDTENKKD	E....PKKEEA..	VNEEVPLDLG	DELEI	384
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSE..	QDTENKKD	E....PKKEEA..	VNEEVPLDLG	DELEI	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	IDGEEAAE.....	SKKDE....	VAQVDS..	VNEEVTLDLG	DELEI	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAE.....	SKKDE....	AAQVDS..	VNEEVTLDLG	DELEI	380
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEES..	AMAVASE.....	E.....	TDDLALDL	DNNGIEI	376
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEE..	KQSSKEK.....	ETDEK..	ADKNLVLE	LDDTIEL	381
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKD	IMLMIQEQIREHYGL	DNNGVVQQ..	QAEETQEEL	EFEE.E.....	.....	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDL..	PTTEDE.QI	NILPDDST....	EE.....	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAIYTAERPE	MEQEIRDRVMAA	IRAGNAGEA	PALAPAPA	AAPEAA.EA.....	.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAFLEKENPE	IADEITKAIQNSM	GIEGMIS..	GSE....DDEGE	E.....	.....	.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENAKALLKEDKAL	ADEITLKIKESIG	SNEEIM..	PLP...DEPLE	EME.....	.....	.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENAKALLKEDKAL	ADEITLKIKESIG	SNEEIM..	PLP...DEPLE	EME.....	.....	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGG	RDITVKELIKDNPE	LAELEAKIREKLQ	AK.....	.....	.....	.....	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPE	IADKLEQEI	RNTLASNP	NSV..LKATAS	DSNDES	DVEEF.....	SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHIT..	E.....GTQDE	TDGER.....	PEE.....	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHIT..	E.....GTQDE	TDGER.....	PEE.....	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHIT..	E.....GTQDE	TDGER.....	PEE.....	.....	348
NTDB id 271125 C4C66 RS06610 WP 003812760.1	NRIGQG	KDNVREYLKEHKEM	AIIEIENKVREN	QIVSRAA..	T.FPASEA	EDGE.....	.....	.....	353
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCRFLRENAEL	AREIENKVREHL	GVTPMGA..	V.TLAEE	VEED.....	.....	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPE	IAKTLDKKLR	EMLLNPEN	MQ..LIAET	SSAADDV	EFGAV.....	PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPE	IAKTLDKKLR	EMLLNPEN	MQ..LIAET	SSAADDV	EFGAV.....	PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAAYLEENPE	IGQIEQQIRAKLL	VSANT..	KATPVA	EDLADA	DI.....	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENP	QISTEIEAVIRE	QLLT	TKASDQ..	TAA.HDETE	EEP.DLL.....	ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENN	QIAEEIERNIRE	QLLT	TGTNG..	AVQ.I.EDEE	EP.DLL.....	LES.....	349
consensus	**!!!*****	** * ****	*****	** *	*				

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		E	LEE	
NTDB id 600 KW2 RS01765 WP 011675413.1		387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388		
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388		
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388		
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384		
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384		
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378		
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383		
NTDB id 115 BSU 16940 NP 389576.2	....	348		
NTDB id 625 LCA RS02525 WP 011374196.1	....	355		
NTDB id 1313 DR RS12030 WP 010888966.1	....	363		
NTDB id 1245 Cj1673c YP 002345041.1	....	343		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	....	347		
NTDB id 1211 C694 RS00795 WP 000963128.1	....	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	....	348		
NTDB id 1124 NGFG RS03960 WP 003688695.1	....	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	....	348		
NTDB id 271125 C4C66 RS06610 WP 003812760.1	....	353		
NTDB id 1427 RS RS02760 WP 011000510.1	....	352		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	....	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	....	354		
NTDB id 1205 PSJM300 05545 AFN77183.1	....	347		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....	349		
consensus				

-  non conserved
-  similar
-  ≥ 50% conserved