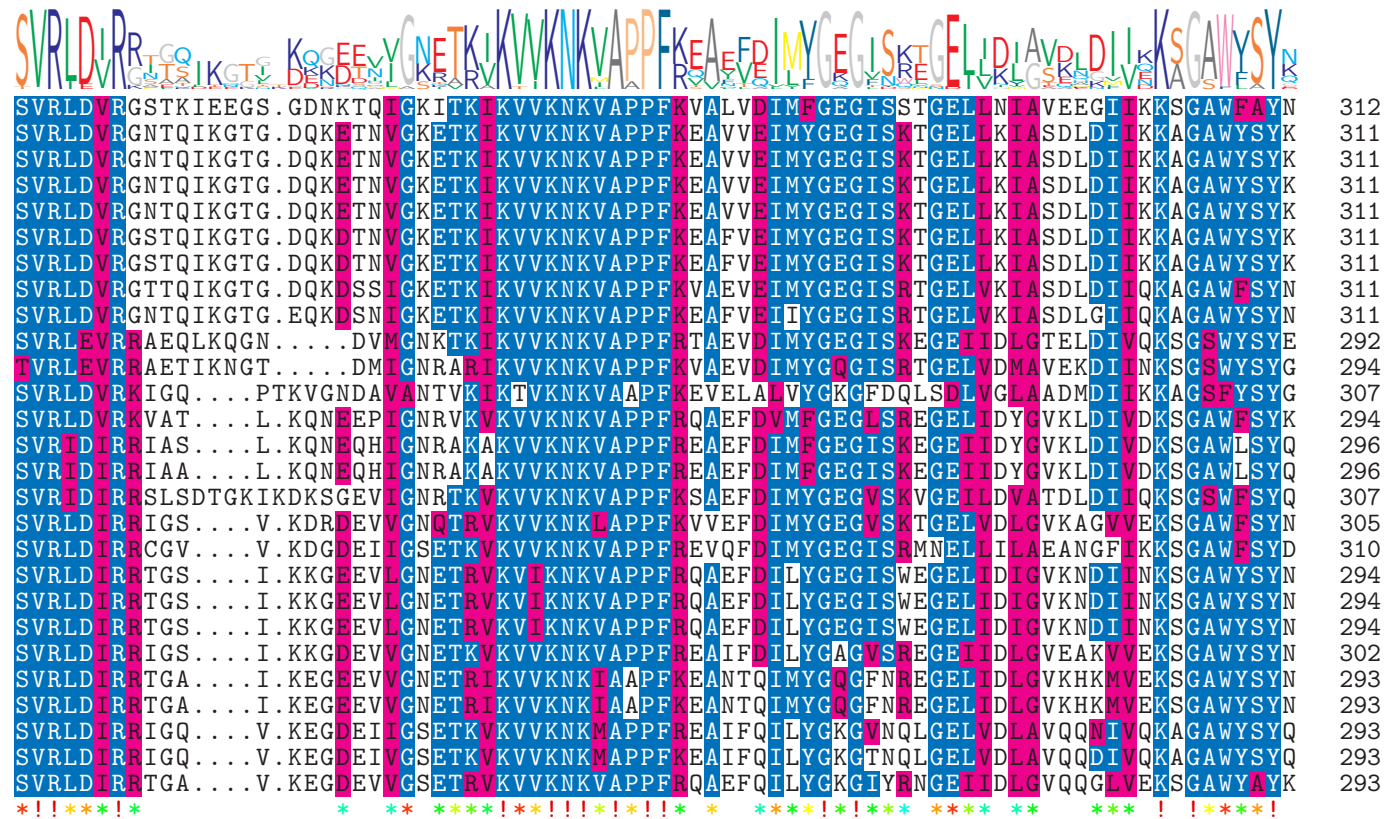


NTDB	id	600	KW2	RS01765	WP	011675413.1	MATKKKTNFDDITKKYGA	ERD	KAL	ADAL	AL	IEKD	FGKGS	SLMR	LGEA	.ANQK	VSV	VSSG	SLALD	I	ALG	AGGY	PKGR	74							
NTDB	id	269	KZH43	RS08665	WP	001085462.1	MAKKPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	228	SPD	RS09265	WP	001085462.1	MAKKPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	194	SPR	RS08825	WP	001085462.1	MAKKPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	159	SP	RS09750	WP	001085462.1	MAKKPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	MAKKPKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	499	SM12261	RS08315	WP	078228268.1	MAKKPKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALGS	GGY	PKGR	73							
NTDB	id	453	Spy49	1753c	ACI	62003.1	MAKKLKKNEEITKKFGD	ERR	KAL	DDAL	KN	IEKD	FGKGA	VMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALG	AGGY	PKGR	73							
NTDB	id	408	SMU	RS09530	WP	002262392.1	MAKRIKKTEEITKKFGD	ERK	KAL	DDAL	KN	IEKD	FGKGA	VMR	LGER	.AEQK	VQVM	SSG	SLALD	I	ALG	AGGY	PKGR	73							
NTDB	id	115	BSU	16940	NP	389576.2	MSDRQAALDMALKQ	IEK	Q	FGKGS	IM	KLGEK	.TDTR	IST	VS	SGSL	ALD	T	ALGI	GGY	PRGR	58									
NTDB	id	625	LCA	RS02525	WP	011374196.1	MAKD	ERQAAL	DAAL	KK	IEKN	FGKGS	IMRM	G	EK	.VDTQ	VST	VSSG	SLALD	E	ALGV	GGY	PRGR	60							
NTDB	id	1313	DR	RS12030	WP	010888966.1	MSKDAT	.KEIS	APTDA	K	ERS	KA	TET	AMS	Q	IEKA	FGKGS	IM	KLGA	E	.SKLD	VQV	VST	GSLS	SLDL	ALGV	GGI	PRGR	72		
NTDB	id	1245	Cj1673c	YP	002345041.1	MDDN	KRKS	SL	DAAL	KS	LD	KT	FGKG	T	ILRL	GDK	.EVEQ	IDS	IGT	SVGL	LDL	ALGI	GGV	PKGR	59						
NTDB	id	1211	C694	RS00795	WP	000963128.1	M	.AID	DK	QA	ISL	AT	IK	ID	KV	FGKGA	L	VRL	GDK	.QVEK	IDS	IST	GS	LGLD	L	ALGI	GGV	PKGR	61		
NTDB	id	1214	NCTC11637	00359	SQJ	03206.1	M	.AID	DK	QA	ISL	AT	IK	ID	KV	FGKGA	L	VRL	GDK	.QVEK	IDA	IST	GS	LGLD	L	ALGI	GGV	PKGR	61		
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	MA	...K	TETT	..SPND	DK	KKLA	AAV	LEK	LD	KTY	GKGT	VM	KL	G	DTVD	HN	IEP	SG	SLGLD	L	ALGV	GGY	PKGR	68	
NTDB	id	323385	EB233	RS21165	WP	013895892.1	MAQNSL	.RLVE	..DKAV	DK	SKAL	DAAL	SQ	IER	A	FGKGS	IMR	LGA	NEQ	VVE	IET	VPT	GS	LGLD	I	ALGV	GGL	PRGR	71		
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	MAEN	KKSSKNNT	.VVKQ	..VEPE	Q	KKQ	AL	EAAL	AQ	IEK	Q	FGKGS	IM	KL	GQT	.EQLD	IES	VST	GS	LGLD	L	ALGI	GGL	PMGR	76
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	MSD	DK	SKAL	AAAL	AQ	IEK	S	FGKGA	IM	KMD	G	SQ	QEEN	LEV	IST	GS	LGLD	L	ALGV	GGL	PRGR	60			
NTDB	id	1124	NGFG	RS03960	WP	003688695.1	MSD	DK	SKAL	AAAL	AQ	IEK	S	FGKGA	IM	KMD	G	SQ	QEEN	LEV	IST	GS	LGLD	L	ALGV	GGL					


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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
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
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
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 323385 EB233 RS21165 WP 013895892.1
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 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	IDGEEAAE....SK	KDE....VAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....SK	KDE....AAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLNNGIE	IEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSS	KEK.....ETDEK	.ADKNLVLELDDT	IELE	382
NTDB id 115 BSU 16940 NP 389576.2	EEERLGGG	RENAKQFLKENKD	IMLMIQEQIREHY	GLDNNGVVQQQAE	ETQEEL.EFE.E.....	.....	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	RENAKNYLADHED	VEDEVRLKVRAA	YGISDVPEEDLPT	TEDE.QI.NILPDD	ST.....EE.....	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAIYIAER	PEMEQEIRDRV	MAAIRAGNAGEA	PALAPAPAAPEA	AAEA.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEI	ADEITKAIQNSM	GIEGM.....ISG	SEDDE..GEE.....	.....	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDK	ALADEITLKIKES	IGSNEE....IMPL	PDEP..LEE..ME.....	.....	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDK	ALADEITLKIKES	IGSNEE....IMPL	PDEP..LEE..ME.....	.....	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDN	PELAEELEAKIRE	KLQAK.....	.....	.....	.....	343
NTDB id 323385 EB233 RS21165 WP 013895892.1	SQRLGGG	RENAKLFLRDN	PDITAREIELAL	RQNAGLIAE....K	FLENGGSEGNGD	GFED..EAGAM.....	.....	366
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEI	ADKLEQEIRNTLA	SNPN....SVLK	KATASDSNDES	DVEE..FSEEEL.....	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEI	SDIDAIRALNGV	EMH....ITEGTQ	DETDGER.....PEE	.....	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEI	SDIDAIRALNGV	EMH....ITEGTQ	DETDGER.....PEE	.....	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEI	SDIDAIRALNGV	EMH....ITEGTQ	DETDGER.....PEE	.....	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENA	EELAREIENKVRE	HLGVTPM....G	AVTLA.EEVEED.....	.....	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLLKENPEI	AKTLDKKLREML	LNPN....MQLIA	ETSSAADDVEFG	A..VPEEF.....	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLLKENPEI	AKTLDKKLREML	LNPN....MQLIA	ETSSAADDVEFG	A..VPEEF.....	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEEN	NQIAEEIERNIRE	QLLTTGT....D	QTAA.HDETEEE	PDLL...ES.....	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEEN	NQIAEEIERNIRE	QLLTTGT....D	QTAA.HDETEEE	PDLL...ES.....	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLEENPEI	IGQIEEQIRAKLL	VTSA.....NTK	ATPVAEDLADADI			347
consensus	***!!!	*****	**	*****	*****	**	**	

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		IEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
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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	
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved