

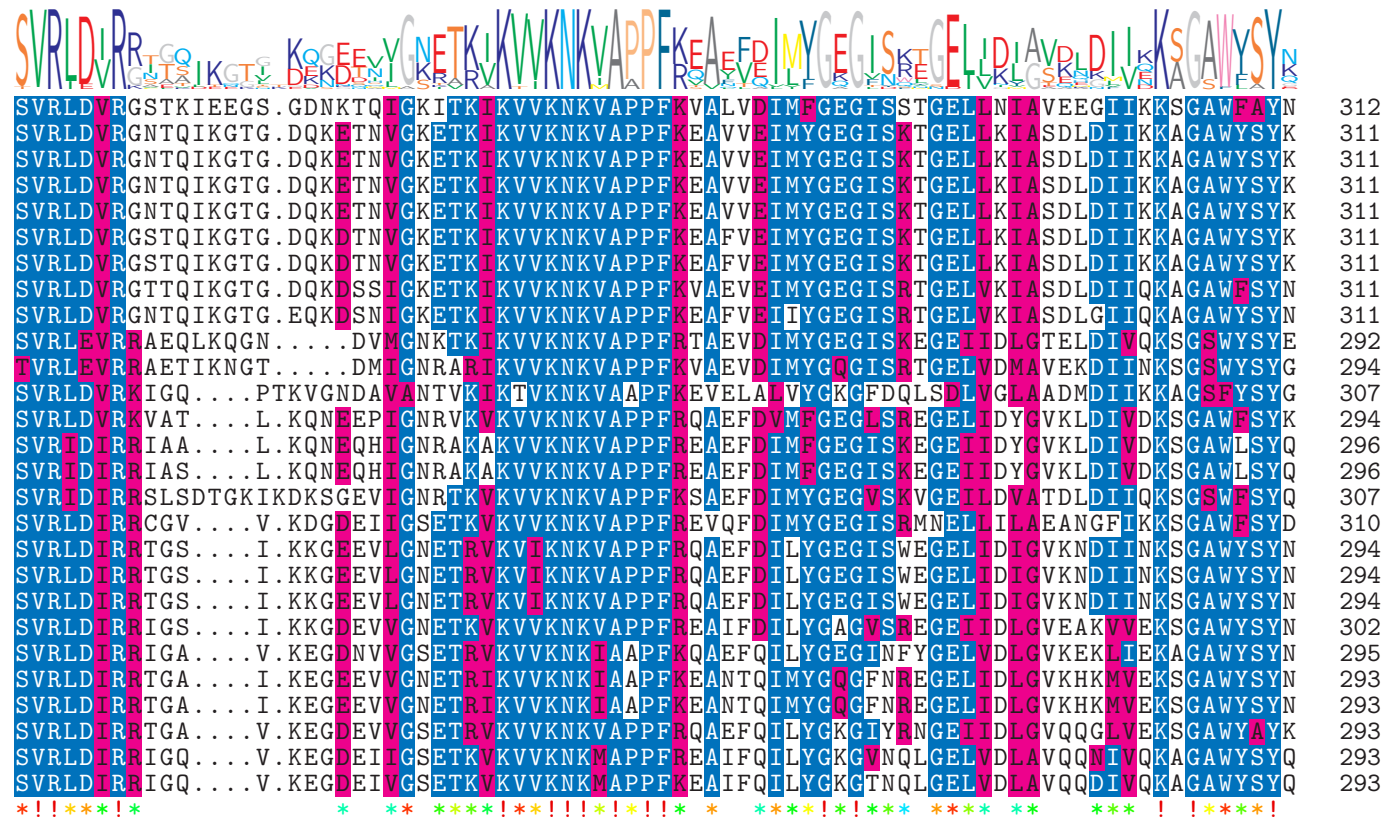
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERD	KALAD	ALAL	IEKD	FGKGS	SLMR	GER	EA	ANQK	VSV	VSSGSL	ALD	I	ALGA	GGYP	PKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	ERE	KALND	ALKL	IEKD	FGKGS	SIMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGS	GGYP	PKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERR	KALDD	ALKN	IEKD	FGKGA	VMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGA	GGYP	PKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERK	KALDD	ALKN	IEKD	FGKGA	VMRL	GER	AEQK	VQV	MSSGSL	ALD	I	ALGA	GGYP	PKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALK	QIEK	QFGKGS	SIMKL	GEK	TDTR	IST	VP	SGSL	ALD	TALG	IGGY	PRGR				58	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDA	ALKK	IEKN	FGKGS	SIMRM	GEK	VDTQ	VST	VSSGSL	AL	DEAL	GVGGY	PRGR				60	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERS	KA	TET	AMS	QIEK	A	FGKGS	SIMKL	GA	E	SKLD	VQV	VST	TGSL	SLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDA	ALKS	LDKT	FGKGT	ILRL	GD	K	EVEQ	IDS	IGT	GS	VGLD	L	ALGI	GGV	PKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAISLA	IKQ	ID	KV	FGKGA	LVR	LDK	QVEK	IDA	IST	GS	LGLD	L	ALGI	GGV	PKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAISLA	IKQ	ID	KV	FGKGA	LVR	LDK	QVEK	IDS	IST	GS	LGLD	L	ALGI	GGV	PKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSNP	DDKK	KALAA	VLEK	LDKT	YGKGT	VMKL	GD	GTVD	HNIE	VIP	SGSL	LGLD	L	ALGV	GGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQ	VEPE	EQKK	QALEA	AAL	QIEK	QFGKGS	SIMKL	GQT	EQ	LDIES	VST	TGSL	LGLD	L	ALGI	GGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKS	KALAA	AAL	QIEK	SFGKGA	IM	KMDGS	Q	Q	Q	EEN	LEV	IST	GS	LGLD	L	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKS	KALAA	AAL	QIEK	SFGKGA	IM	KMDGS	Q	Q	Q	EEN	LEV	IST	GS	LGLD	L	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKS	KALAA	AAL	QIEK	SFGKGA	IM	KMDGS	Q	Q	Q	EEN	LEV	IST	GS	LGLD	L	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMS	AEKQ	KALAA	AL	QIEK	QFGKGS	SIMKM	GD	A	EVEP	VQV	VST	GS	LGLD	V	ALGVGGLPRGR	68	
NTDB id 298903 DPF99 RS21780 WP 002914769.1	MAIDENKQKALAAAL	GQIEK	QFGKGS	SIMRL	GED	RTMD	VET	IST	GS	LSLD	I	ALGA	AGGL	PMGR			61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAAL	GQIEK	QFGKGS	SIMRL	GDN	RAMD	VET	IST	GS	LSLD	I	ALGA	AGGL	PMGR			59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAAL	GQIEK	QFGKGS	SIMRL	GDN	RAMD	VET	IST	GS	LSLD	I	ALGA	AGGL	PMGR			59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAAL	GQIEK	QFGKGA	VMR	MGD	H	DRQA	IPS	IST	GS	LGLD	I	ALGI	GGL	PKGR		59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALS	QIEK	QFGKNT	VM	RLGDN	TVQA	VEA	VST	GS	SLT	LD	I	ALGI	GGL	PKGR		59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALS	QIEK	QFGKNT	VM	RLGDN	TVQA	VEA	VST	GS	SLT	LD	I	ALGI	GGL	PKGR		59	
consensus	***	***	*	***!	*!!	*****	*		***!!	*!!	*!!	*!!	*!!	*!!	*!!	*!!		


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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 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
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 1427 RS RS02760 WP 011000510.1
NTDB id 298903 DPF99 RS21780 WP 002914769.1
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 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
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	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAE....SK	KDE....VAQVDS	..VNEEVTLDLG	DELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....SK	KDE....AAQVDS	..VNEEVTLDLG	DELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLDN	GIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSS	KEK.....ETDEK	..ADKNLVLELD	DTIELE	382
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEET	QEEL.EFE.E.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTE	DE.QI.NILPDDST	EE.....		355
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NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGGR	ENSKAFLKENPEIA	DEITKAIQNSMG	IEGMISGSEDDE	..GE.E.....			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGGR	ENAKALLKEDKALA	DEITLKI	KESIGSNEEIMPL	PDEP..LE.EME			347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGGR	ENAKALLKEDKALA	DEITLKI	KESIGSNEEIMPL	PDEP..LE.EME			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGGR	DTVVKELIKDNPE	LAELEAKIREKL	QAK.....				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGG	KNNAVKWLKENPEI	ADKLEQEIRNTL	ASNPNSVLKATAS	..D...SNDES	DVEEFSEEE..L		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	..TD.....GER	PEE.....		348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	..TD.....GER	PEE.....		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	..TD.....GER	PEE.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCRFLRENAEL	AREIENKVR	REHLGVTPMGAV	TLAE..VE.ED			352
NTDB id 298903 DPF99 RS21780 WP 002914769.1	GDKIGQGG	KANAITWLKENP	AAAKEIEKKVRE	LLLNQDAKPD..FV	..VD.GNDAE	ETEQDF.....		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGG	KANACKYLLKEN	PEIAKTLDKKL	REMLLNPENMQLI	..AE.....TSSA	ADDVEFGAVPEEF		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGG	KANACKYLLKEN	PEIAKTLDKKL	REMLLNPENMQLI	..AE.....TSSA	ADDVEFGAVPEEF		354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGG	KANAAYLEENPEI	GIEEQIRAKLL	VSANTKA..TP..VA	EDLADADI.....			347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGG	KNNVIRYLEENP	QISTEIEAVIRE	QLLT	TKASDQTA..A...HD	ETEEEPDLLES		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGG	KNNVIRYFEENN	QIAEEIERNIRE	QLLT	TGTNGAV..Q...I..E	DEEEDPDLLES		349
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
NTDB id 408 SMU RS09530 WP 002262392.1	D..		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
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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 1427 RS RS02760 WP 011000510.1	...		352
NTDB id 298903 DPF99 RS21780 WP 002914769.1	...		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			

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