

NTDB	id	600	KW2	RS01765	WP	011675413.1	MATKKKTNFDDITKKYGA	ERDKALAD	ALAL	IEKDFGKGS	LMRLGEA	.ANQKV	VS	VSSGSL	ALD	IALG	AGGYP	KGR	74	
NTDB	id	269	KZH43	RS08665	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQKV	QVM	MSSGSL	ALD	IALGS	GGYP	KGR	73	
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NTDB	id	194	SPR	RS08825	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQKV	QVM	MSSGSL	ALD	IALGS	GGYP	KGR	73	
NTDB	id	159	SP	RS09750	WP	001085462.1	MAKKPKKLEEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQKV	QVM	MSSGSL	ALD	IALGS	GGYP	KGR	73	
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	MAKKPKKLDEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQKV	QVM	MSSGSL	ALD	IALGS	GGYP	KGR	73	
NTDB	id	499	SM12261	RS08315	WP	078228268.1	MAKKPKKLDEISKKFGA	EREKALND	ALKL	IEKDFGKGS	SIMRLGER	.AEQKV	QVM	MSSGSL	ALD	IALGS	GGYP	KGR	73	
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NTDB	id	115	BSU	16940	NP	389576.2	MSDRQAALDMALKQIEKQ	FGKGS	SIMKLGEK	.TDTRIST	VP	SGSL	ALD	TD	ALGI	GGYPRGR		58		
NTDB	id	625	LCA	RS02525	WP	011374196.1	MAKD	ERQAALDA	ALKK	IEKN	FGKGS	SIMRMGEK	.VDTQ	VST	VSSGSL	ALDE	ALGV	GGYPRGR	60	
NTDB	id	1313	DR	RS12030	WP	010888966.1	MSKDAT	.KEISAPTDAK	ERSKAT	ET	AMSQIEKA	FGKGS	SIMKLGAE	.SKLD	VQV	VST	GSLSLD	LALGV	GGIPRGR	72
NTDB	id	1245	Cj1673c	YP	002345041.1		MDDN	KRKSLDA	ALKS	LDKT	FGKGT	ILRLGDK	.EVEQ	IDS	IGT	GSVGLD	LALGI	GGVPKGR	59	
NTDB	id	1211	C694	RS00795	WP	000963128.1	M..AIDE	DKQKAISL	AIKQ	IDKV	FGKGA	LVRLGDK	.QVEK	IDS	IST	GSLSGLD	LALGI	GGVPKGR	61	
NTDB	id	1214	NCTC11637	00359	SQJ03206.1		M..AIDE	DKQKAISL	AIKQ	IDKV	FGKGA	LVRLGDK	.QVEK	IDA	IST	GSLSGLD	LALGI	GGVPKGR	61	
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	MA...K.TETT	.SPND	DKKKALAAV	LEK	LDKT	YKGKTVM	KLGD	GTVDHN	IEV	IPS	GSLSGLD	LALGV	GGYPKGR	68
NTDB	id	323920	EB229	RS24440	WP	010909075.1	MAQNSL	.RLVE..DKAV	DKSKALDA	ALSQ	IERA	FGKGS	SIMRLGANEQVVE	IET	VPT	GSLSGLD	LALGV	GGLPRGR	71	
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	MAENKKSSKNNT.VVKQ	.VEPEQ	KKQALEA	ALAQ	IEKQ	FGKGS	SIMKLGQT	.EQLD	IES	VST	GSLSGLD	LALGI	GGLPMGR	76
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	MSD	DKSKALAA	ALAQ	IEKS	FGKGA	IMKMDGSQ	QEEN	LEV	IST	GSLSGLD	LALGV	GGLPRGR	60	
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NTDB	id	1123	OK783	RS03845	WP	003688695.1	MSD	DKSKALAA	ALAQ	IEKS	FGKGA	IMKMDGSQ	QEEN	LEV	IST	GSLSGLD	LALGV	GGLPRGR	60	
NTDB	id	1427	RS	RS02760	WP	011000510.1	MEDG.....KKA	.SMSA	EKQKALAA	ALAQ	IEKQ	FGKGS	IMKMGDA	.EVEP	VQV	VST	GSLSGLD	VALGV	GGLPRGR	68
NTDB	id	1165	A1552VC	RS01565	WP	000344154.1	MDEN	KQKALAA	ALGQ	IEKQ	FGKGS	SIMRLGDN	.RAMD	VET	IST	GSLSLD	IALG	AGGLPMGR	59	
NTDB	id	1142	GTF74	RS11550	WP	000344154.1	MDEN	KQKALAA	ALGQ	IEKQ	FGKGS	SIMRLGDN</								

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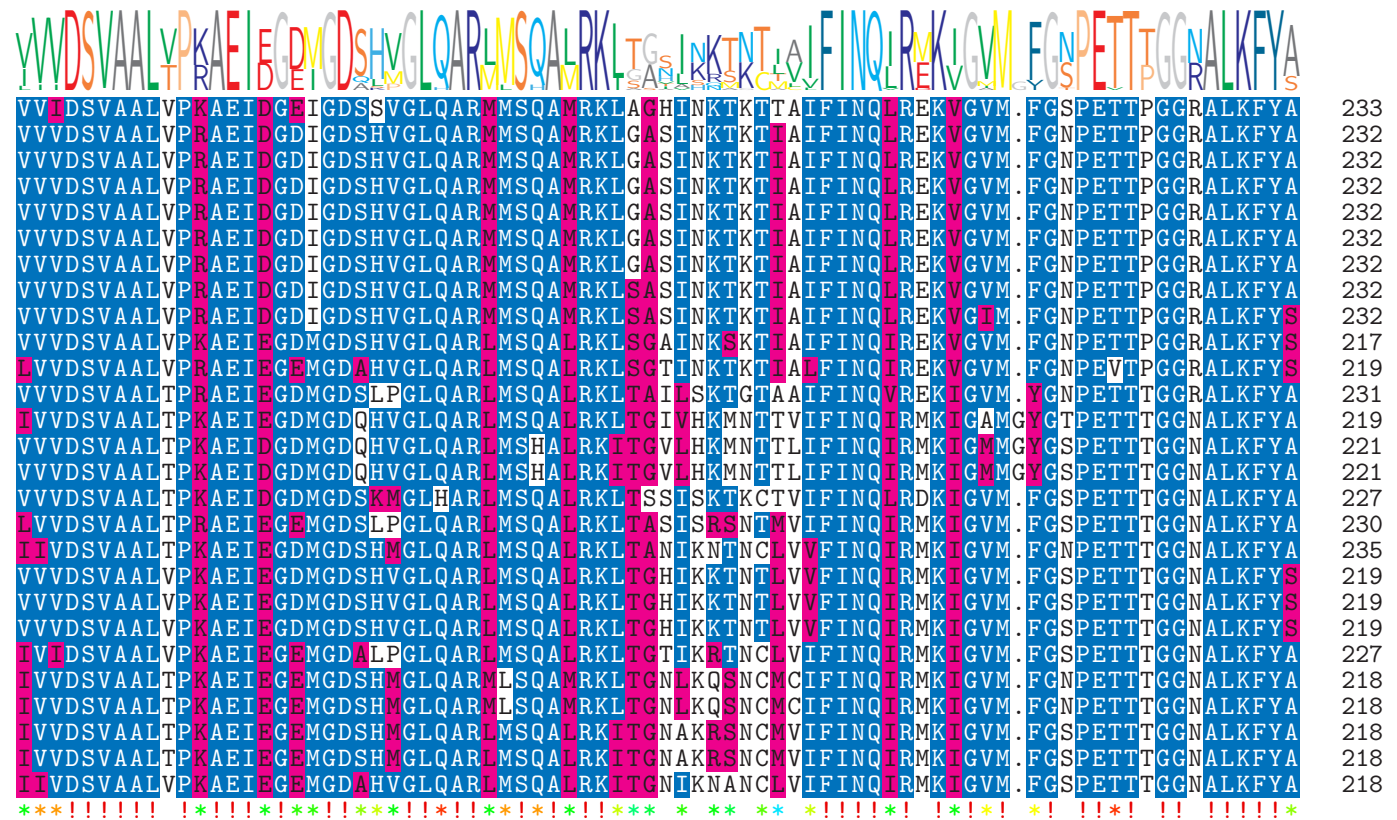
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consensus

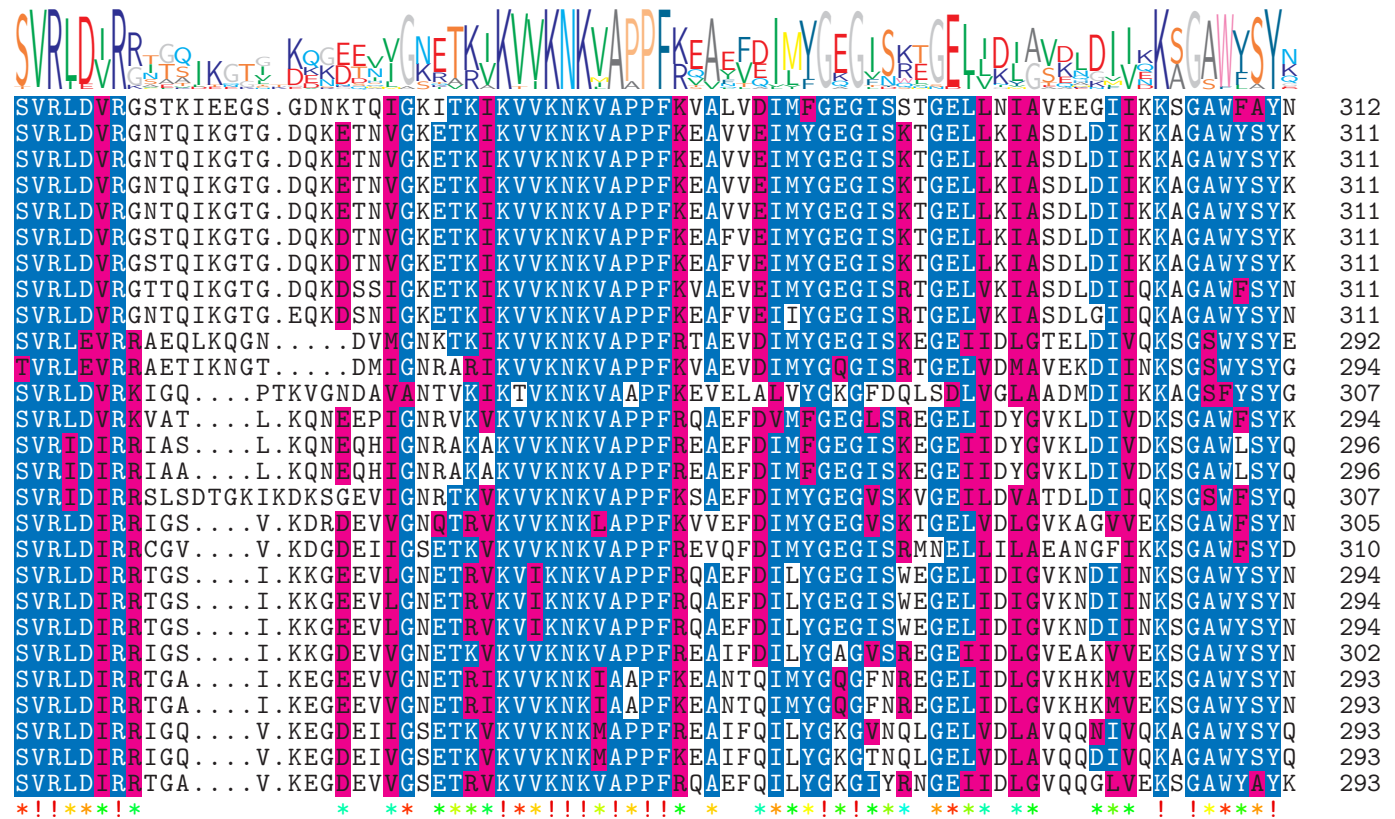
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NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 1334 RAOC RS04870 WP 004918236.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE.....	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE.....	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE.....	PKKEEA..VNEEVPLDLGDEL	382
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NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAE...	SKKDE.....	AAQVDS..VNEEVTLDLGDEL	378
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE.....	E.....	TDDLALDLNGI	374
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NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENK	DIIMLIQEQIREHYGL	DNNGVVQQAEETQEEL....	EFE.E.....		348
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NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAIYIAERPE	MEQEIRDRVMAAIR	AGNAGEAPALAPAPAAPEAAEA.....			363
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NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKALA	DEITLKI	KESIGSNEE....	IMPLPDEP...LEEME.....		347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDKALA	DEITLKI	KESIGSNEE....	IMPLPDEP...LEEME.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDNPE	LAELEAKIREKLQAK.....				343
NTDB id 323920 EB229 RS24440 WP 010909075.1	SQRLGGG	RENAKLFLRDNPD	TAREIELALRQNA	GLIAE.....	KFLENGGSEGGDDGFED..	AGAM.....	365
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMH....	ITEGTQDET	DGER.....	PEE.....	348
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NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVREHLG	VTPM....	GAVTLA.EEVEED.....		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLLKENPEIA	AKTLDKKL	REMLLNPN.....	MQLIAETSSAADD...VE..	FGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLLKENPEIA	AKTLDKKL	REMLLNPN.....	MQLIAETSSAADD...VE..	FGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERNIREQLLT	TKAS....	DQTAA.HDETEEE...PD..LL..	ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERNIREQLLT	TTGT....	NGAVQ.I.EDEEE...PD..LL..	LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLEENPEI	GQIEIEQIRAKLL	VTSA....	NTKATPVAEDLAD...AD..I.....		347
consensus	***!!!	*****	**	*****	*****	**	**

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NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE					388
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consensus						

-  non conserved
-  similar
-  ≥ 50% conserved