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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
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NTDB id 224683 B7L39 RS06615 WP 000344169.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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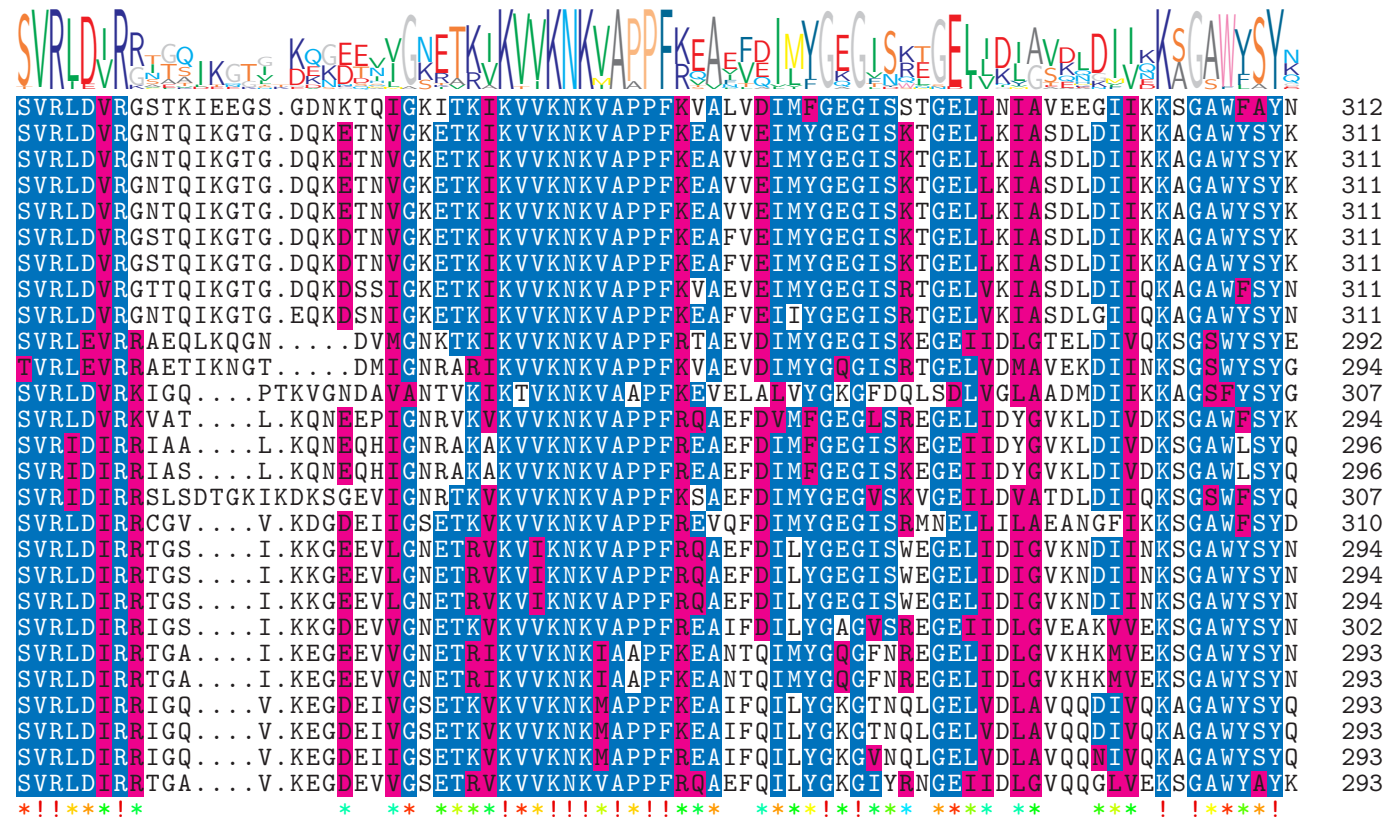


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NTDB	id	269	KZH43	RS08665	WP	001085462.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232											
NTDB	id	228	SPD	RS09265	WP	001085462.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232											
NTDB	id	194	SPR	RS08825	WP	001085462.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232											
NTDB	id	159	SP	RS09750	WP	001085462.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232											
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232											
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NTDB	id	453	Spy49	1753c	ACI62003.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	.	232												
NTDB	id	408	SMU	RS09530	WP	002262392.1	VV	DSVAAL	V	RAEID	G	D	IGDSH	V	GLQAR	M	MSQAM	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	T	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	.	232											
NTDB	id	115	BSU	16940	NP	389576.2	VV	DSVAAL	V	PKAEIE	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	A	I	N	K	S	K	T	I	A	I	F	I	N	Q	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	.	217
NTDB	id	625	LCA	RS02525	WP	0011374196.1	L	V	DSVAAL	V	RAEIE	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	I	A	I	F	I	N	Q																										

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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEE	TTASKTK	..AKAKKEEKAVETEEIELELED..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE	PKKEEA..VNEEVPLDLGDEL	382
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	LIDGEEAAE	SKKDE	VAQVDS..VNEEVTLDLGDEL	378
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE	SKKDE	AAQVDS..VNEEVTLDLGDEL	378
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE	E.....TDDLALDLNGI	374
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSS	KEK	ETDEK..ADKNLVLELDDTI	379
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGS	ENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAAEE	TQEEL	E..FE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	ENAKNYLADHEDVE	DEVRLKVRVQYGL	ISDVPEEDLP	TTE	DE.QI.N..ILPDDST.....EE	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIAIYIAERPE	MEQEIRDRVMAA	IRAGNAGEAPAL	A	PAPAAPEAAEA.....	363
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGGS	ENAKALLKEDKALA	DEITLKI	KESIGSNEEIMPL	..PDEPLE	..EME.....	347
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NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGGS	RDITVVKELIKDN	PELAEELEAKI	REKLQAK			343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGS	KNNAVKWLKENPEI	ADKLEQEIRNTL	ASNPNSVLK	..ATASDSND	ESDVVEEFSE.....EEL	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEG	..TQDET	D.....GERPE.....E	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEG	..TQDET	D.....GERPE.....E	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEG	..TQDET	D.....GERPE.....E	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGS	RDNCRFLRENAEL	AREIENKVRHL	GVTPMGAV	..TLAEEVEED		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGS	KANACKYLKENPEI	AKTLDKKLREML	LNPNMQLI	..AETSSAAD	DVEFGAVPE.....EF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGS	KANACKYLKENPEI	AKTLDKKLREML	LNPNMQLI	..AETSSAAD	DVEFGAVPE.....EF	354
NTDB id 224683 B7L39 RS06615 WP 000344169.1	GNKIGQGS	KNNVIRYFEENTQ	IAEEIERNIREQL	LTGTNGAV	..Q.I.EDEE	EPD..LLE.....S	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGS	KNNVIRYFEENNQ	IAEEIERNIREQL	LTGTNGAV	..Q.I.EDEE	EPD..LLE.....S	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGS	KNNVIRYLEENPQ	ISTEIEAVIREQL	LTKASDQTA	..A.HDETEE	EPD..LLES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGS	KANAAYLLEENPEI	GQIEIEQQLRAKLL	VTSANTKA	..TPVAEDLAD	AD..I.....	347
consensus	***!!!*****	**	*****	*****	**	**	*

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NTDB id 600 KW2 RS01765 WP 011675413.1		387					
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE	388					
NTDB id 228 SPD RS09265 WP 001085462.1	EIEIEE	388					
NTDB id 194 SPR RS08825 WP 001085462.1	EIEIEE	388					
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEIEE	384					
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NTDB id 408 SMU RS09530 WP 002262392.1	ELED..	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					
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consensus							

-  non conserved
-  similar
-  ≥ 50% conserved