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NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 RA0C 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
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 Q5545 AFN77183.1

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MATKK		K	T	N	F	D	D	I	T	K	K	Y	G	A	E	R	D	K	A	L	A	D	A	L	A	L	I	E	K	D	F	G	K	S	I	M	R	L	G	E	A	.A	N	Q	K	V	S	V	S	S	G	S	L	A	L	D	I	A	L	G	A	G	G	Y	P	K	R	74	
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logo

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consensus	*	*	!	*	*	!	!	!	!	!	!	!	!	*	!	*	*	*	*	!	*	*	!	*	*	!	*</																																																							

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NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 115 BSU 16940 NP 389576.2
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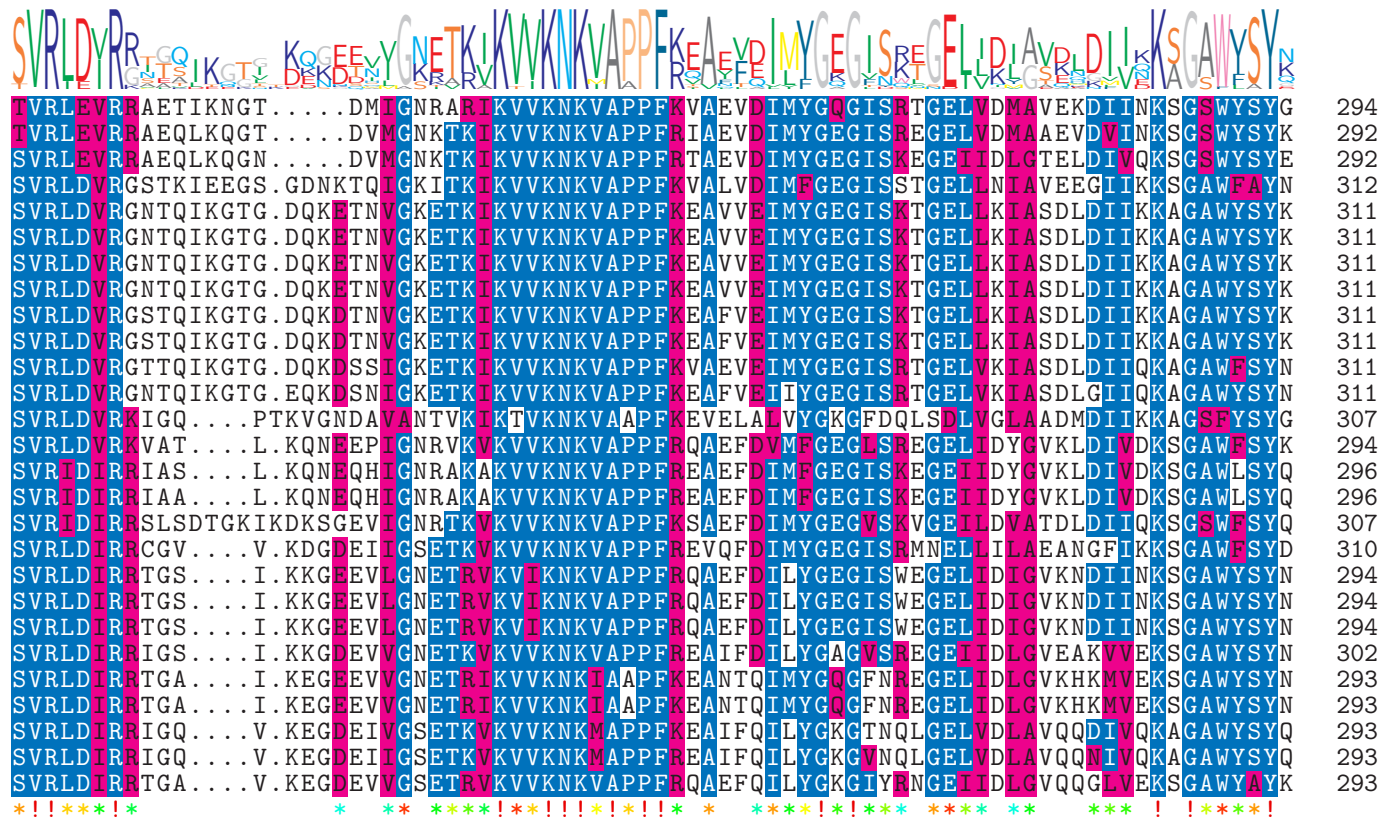
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VVIDSVAALVPKAEIDGEIGDSSVGLQARLMSQAMRKLAGHINKTKTIAIFINQIREKVGVM.FGSPETTPGGRALKFY	233
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
VVVDSVAALVPRAEIDGDIIGDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFY	232
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IVVDSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGMGMGYGTPETTTGGNALKFY	219
VVVDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMGMGYGSPETTTGGNALKFY	221
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VVVDSVAALTPKAEIDGDMGDSKMLHARLMSQALRKLTSSIKTKCTVIFINQLDKIGVM.FGSPETTTGGNALKFY	227
IIIVDSVAALTPKAEIEGDMGDSHMLQARLMSQALRKLTANIKNTNCLVIFINQIRMKIGVM.FGNPETTTGGNALKFY	235
VVVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFY	219
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IVIIDSVAALVPKAEIEGEMGDAALPLGLQARLMSQALRKLTGTRKNTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFY	227
IVVDSVAALTPKAEIEGEMGDSHMLQARLMSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFY	218
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IVVDSVAALTPKAEIEGEMGDSHMLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFY	218
IVVDSVAALTPKAEIEGEMGDSHMLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFY	218
IIIVDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNKNCNLVIFINQIRMKIGVM.FGSPETTTGGNALKFY	218

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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 103529 AXF54 RS07150 WP 003732286.1
NTDB id 115 BSU 16940 NP 389576.2
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 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 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 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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NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVR	AAAYGISDVPEEDLPTTEDEQINILPDDSTEE	355				
NTDB id 103529 AXF54 RS07150 WP 003732286.1	EERIGQGRENAKQYLKEHTDIRDEISKRVR	EYEIDGSSKEPLD..EKEETLSLLDDE	348				
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGRENAKQFLKENKDIMLMIQE	IREHYGLDNNGVVQQAEETQEELEFEE	348				
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFEIDHKKV	RAAHGLDDSEVAETEEETTASKTAKAKKEEK	AVETEEIELELED	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385			
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385			
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385			
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385			
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIFDEIDHQVRVQF	GLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAEIDHQVRVQF	GLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381			
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLFDEIDRKVRVKF	GLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377			
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIFDDIDHKKVRVQY	GLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382			
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGG	KEKTIAYIAERP	MEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA	363			
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSK	AFLENPEIAD EITKAIQNSMGI	EGMI....SGSEDDE..GEE	343			
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAK	ALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP..LEEME	347			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAK	ALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP..LEEME	347			
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRD	TVKELIKDNPELAEELEAKIREKLQAK	343				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNN	AVKWLKENPEIADKLEQEIRNTLASNPNS	VLKATASDSNDES	DVEE..FSEEEL	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVR	RVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GE..RPEE	348			
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVR	RVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GE..RPEE	348			
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVR	RVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GE..RPEE	348			
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNC	REFLR	ENAELAREIENKVR	REHLGVTPMG....AV.TLAE	EVEED	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKAN	ACKY	LKENPEIAKTLDKKL	REMLLN	PENM....QLIAETSSA	ADDVEFGA..VPEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKAN	ACKY	LKENPEIAKTLDKKL	REMLLN	PENM....QLIAETSSA	ADDVEFGA..VPEEF	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNN	VIRYFEENNQIAEEIERN	IREQLLTGTN....GAVQ.I.EDEE	EPD..L..LLES	349		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNN	VIRYLEENPQISTEIEAV	IREQLLTKASD....QTAA.HDETEE	EPD..L..LES	349		
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKAN	AAKYLEENPEIGQIEEQ	QIRAKLLVTSAN....TKATPVAED	LADAD..I	347		
consensus	**!!!!***** ** * *** ***** ** **						

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		IEE	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
NTDB id 103529 AXF54 RS07150 WP 003732286.1	...	348	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
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 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
NTDB id 1245 Cj1673c YP 002345041.1	...	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

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