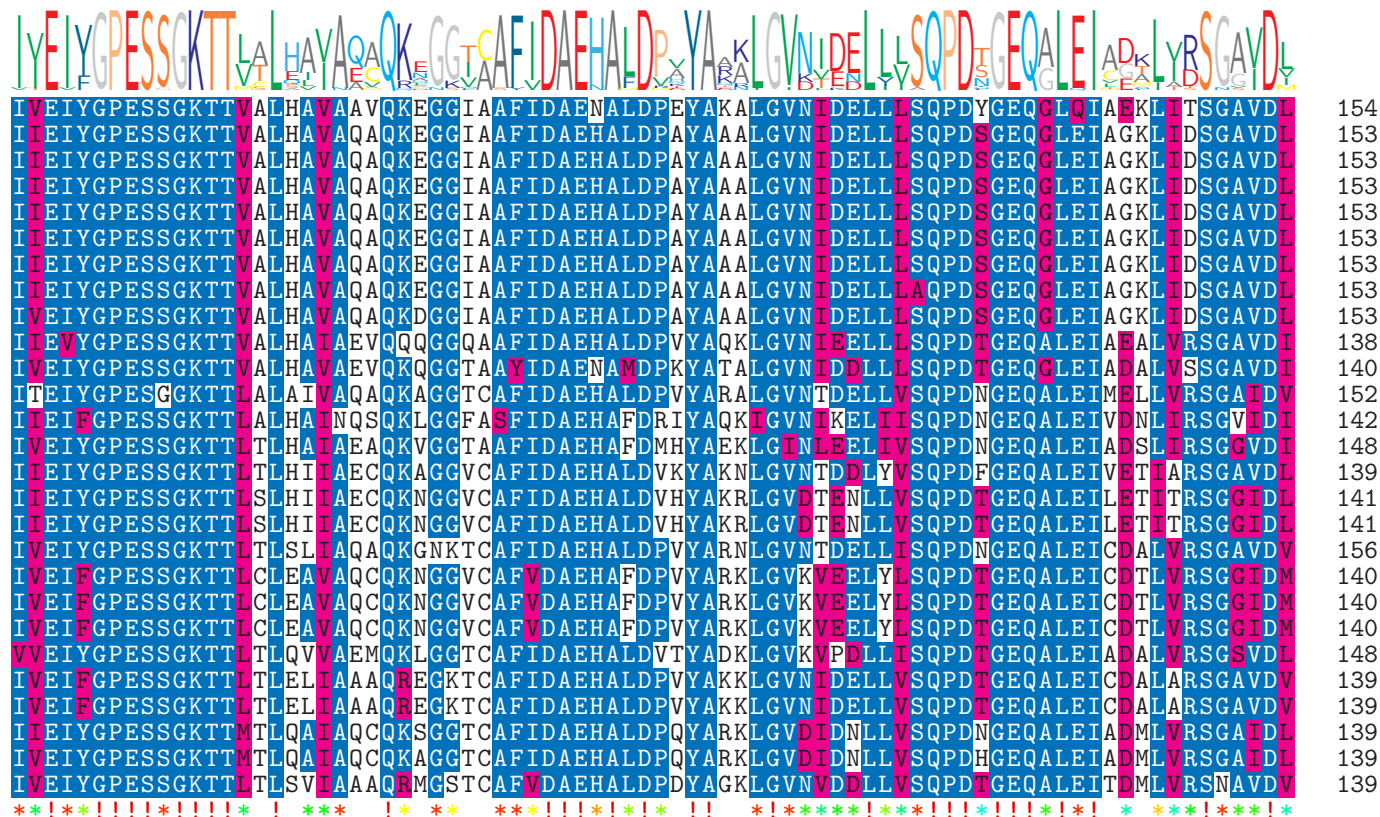


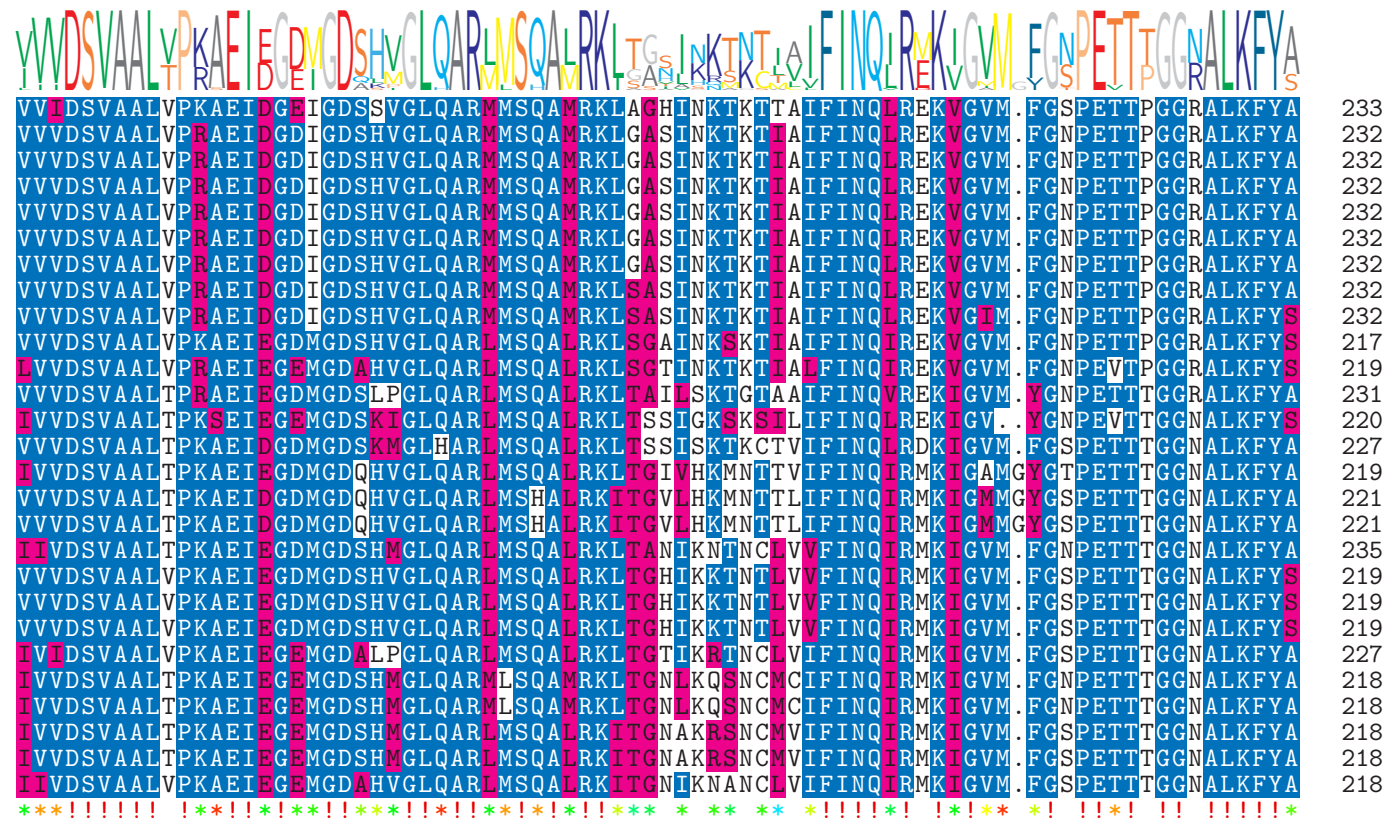
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NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKL	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFG	DERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73			
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFG	DERKKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73			
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTRISTVPSGSLALD	T	ALGIGGYPRGR	58				
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALD	E	ALGVGGYPRGR	60				
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAK	ERSKATETAM	IEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLD	L	ALGVGGIPRGR	72			
NTDB id 36679 BPAA RS00190 WP 015429661.1	M..NEKT	EQKRKSLQLVLEK	MDKIYKGKTVMQMG	DSHI	.KNLEVISSGSLSLD	I	ALGIKGFPKGR	62		
NTDB id 1334 RAO RS04870 WP 004918236.1	MAKTET..TSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLDLALGVGGYPRGR	68			
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKAIISLA	IKQIDKVFGKGALVRLGDK	.QVEKIDA	ISTGSLGLDLALGIGGV	PKGR	61			
NTDB id 1211 C694 RS00795 WP 000963128.1	MAID	EDKQKAIISLA	IKQIDKVFGKGALVRLGDK	.QVEKIDS	ISTGSLGLDLALGIGGV	PKGR	61			
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NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLDLALGVGGL	PRGR	60				
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NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKA..ASMSA	EKQKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	VALGVGGLPRGR	68				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGR	59			
NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALGQ	IEKQFGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	I	ALGIGGLPKGR	59		
consensus	*** **	***	**	**!	!!	*****	*	*****!!*!!*!!*!!	!!	!!

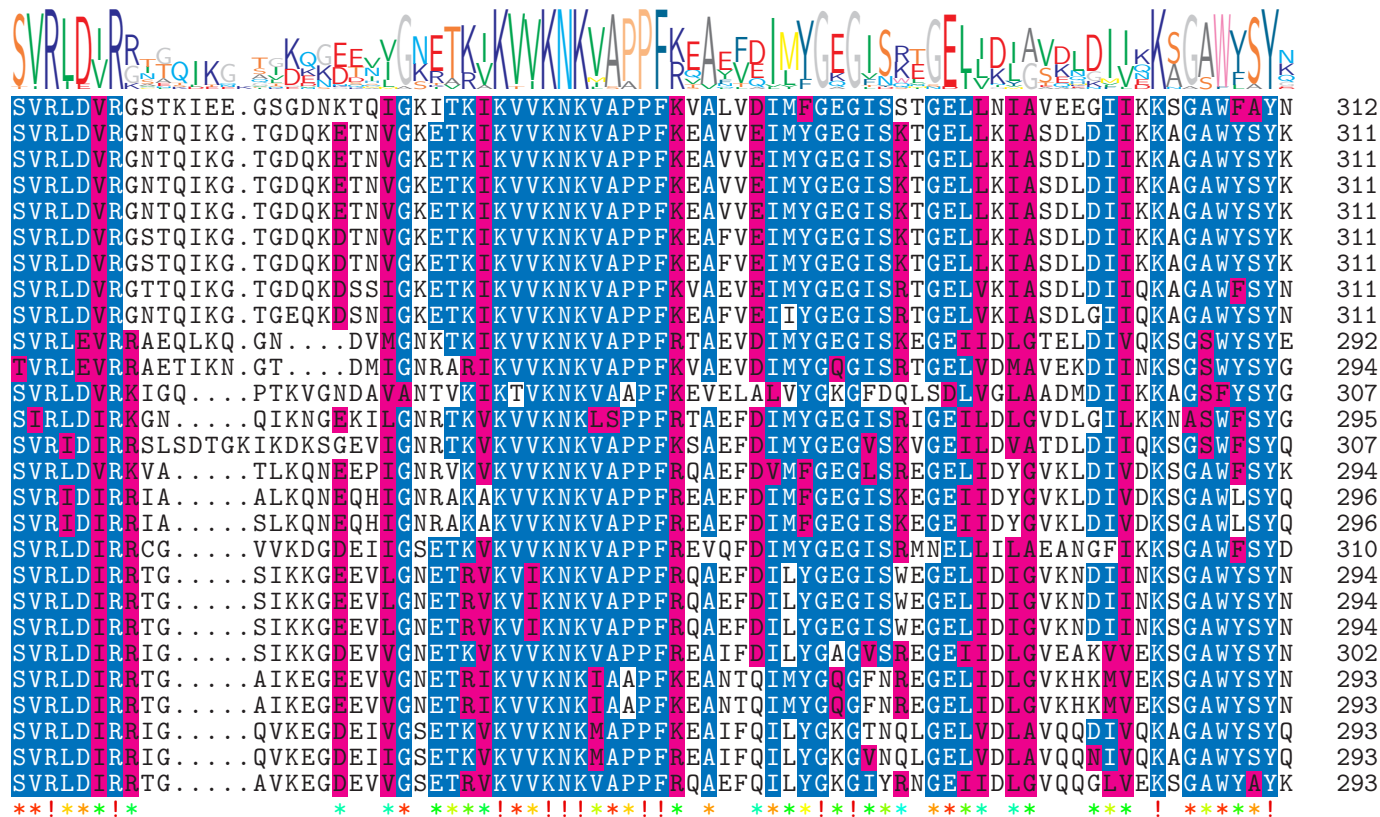
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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 36679 BPAA RS00190 WP 015429661.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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consensus



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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 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385	
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NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLG	DELEIE	385	
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAES....	KKDE....AAQVDS	..VNEEVTLDLG	DELEIE	381	
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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	IEEDNTEEKQSS	KEK.....ETDEK	..ADKNLVLEL	DDTIELE	382	
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NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHED	VEDEVRLKVR	AAYGISDVPEED	LPTTEDE.QI.NIL	PDDST.....EE		355	
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NTDB id 1334 RAO RS04870 WP 004918236.1	DTKLGQG	RDTVKELIKDN	PELAEELEAKI	REKLQAK.....				343	
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NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGQ	RENAKALLKED	KALADEITLKI	KESIGSNEEI	MPLPDEP	..LEEME.....		347	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNNAVKWL	KENPEIADKLE	QEIRNTLASNP	NS....VLKATAS	DSNDES..VEEF	SEEEL.....	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEI	DAKIRALNGV	EMHI....TEGTQ	DETD.....GER	PEE.....	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEI	DAKIRALNGV	EMHI....TEGTQ	DETD.....GER	PEE.....	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEI	DAKIRALNGV	EMHI....TEGTQ	DETD.....GER	PEE.....	348	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYL	KENPEIAKTLD	KKLREMLLN	PENM....QLIA	ETSSAADDVE	..FGAVPEEF		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYL	KENPEIAKTLD	KKLREMLLN	PENM....QLIA	ETSSAADDVE	..FGAVPEEF		354
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NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANA	AKYLEENPEI	GQIEEQIRAKLL	VTSAN....TKAT	PVAEDLADAD	I.....	347	
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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
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved