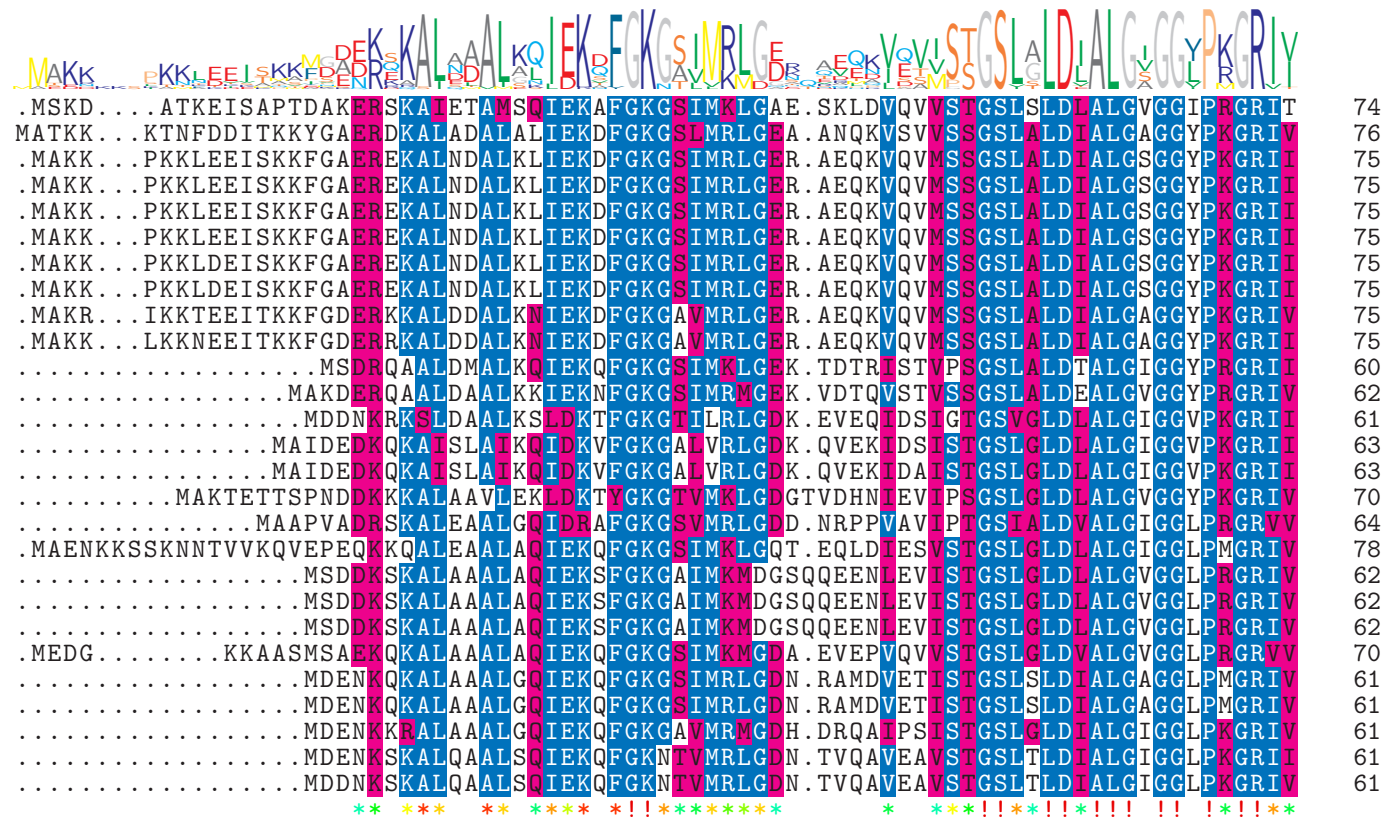


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NTDB id 194 SPR RS08825 WP 001085462.1
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consensus

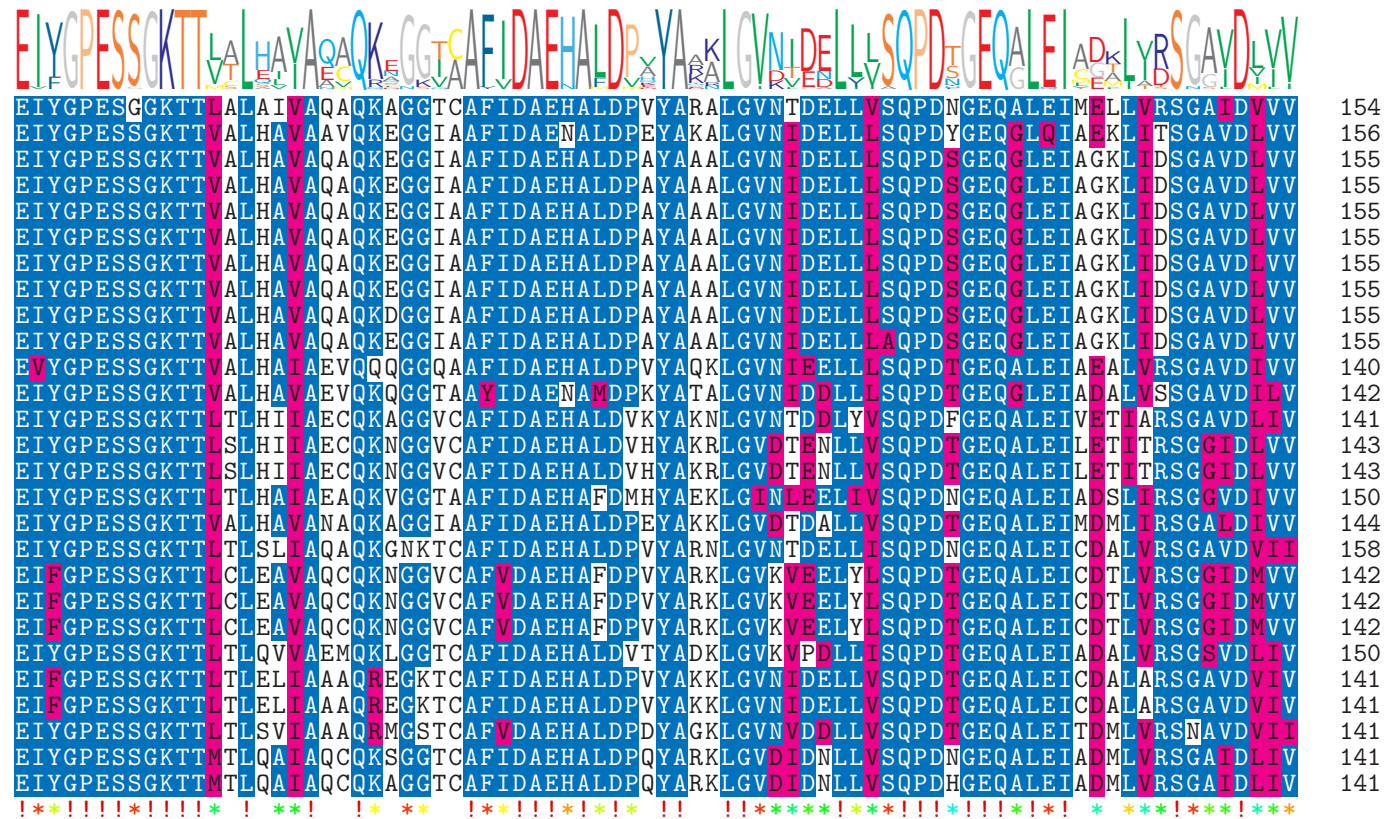
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consensus

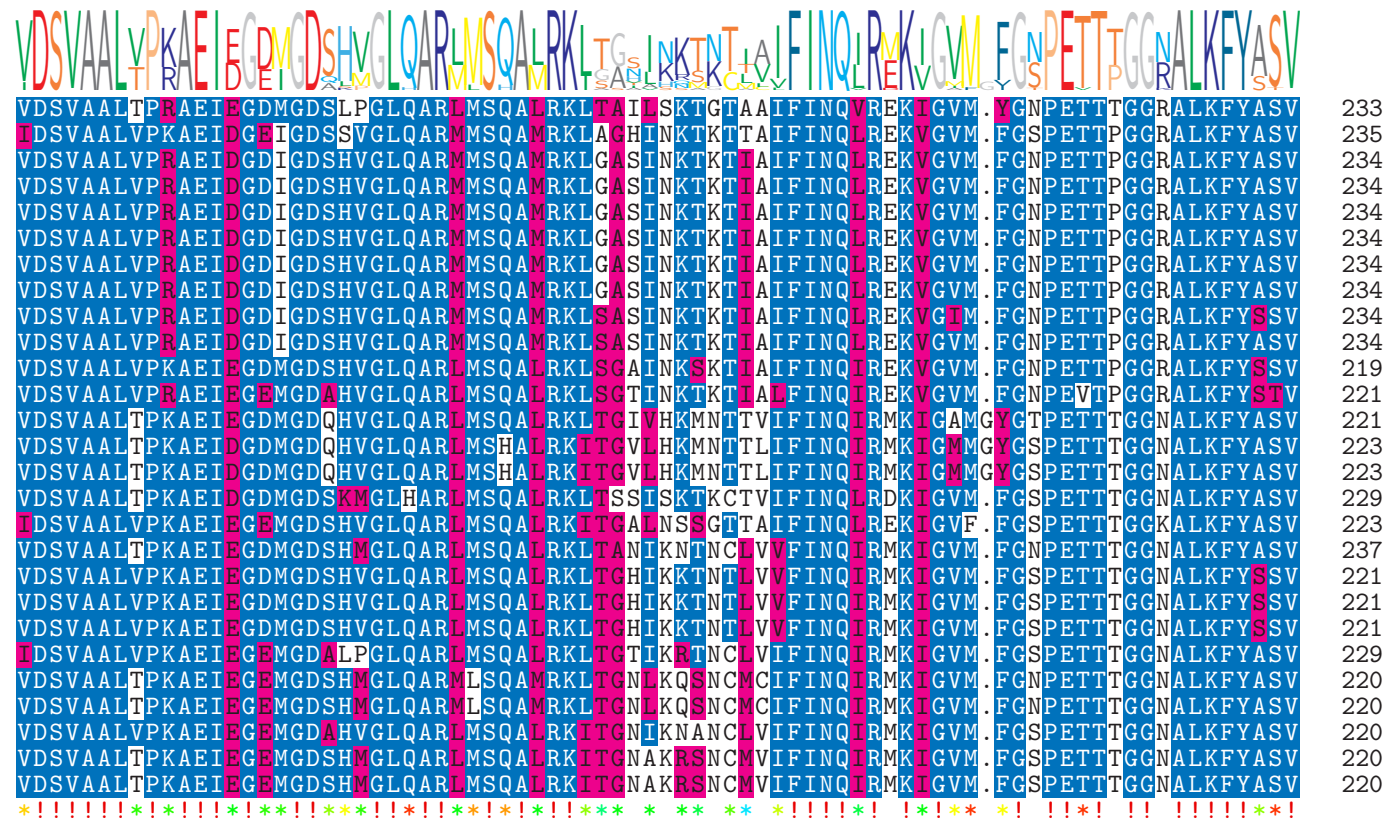
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consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQ...PTKVGND	AVANTV	KIKTVKNKV	APPFKE	VELALVY	GKGFDQLS	DLVGLA	ADMDI	IKKAGS	FYSY	GDE	309									
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NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGISK	TGELLK	IASDL	DI	IKKAGA	WYSY	KDE 313									
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NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGISK	TGELLK	IASDL	DI	IKKAGA	WYSY	KDE 313									
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGISK	TGELLK	IASDL	DI	IKKAGA	WYSY	KDE 313									
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NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....	DVMGNK	TKIKVVKNKV	APPFRT	AEVDIMY	GEGIS	KEGE	I	DLG	TELD	IV	QKSGSWYSYEEE 294									
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAETIKNGT.....	DMIGNR	ARIKVVKNKV	APPFKE	AEVDIMY	G	GISRT	TGEL	VD	MAVE	KDI	INKSGSWYSYGSE 296									
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NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAK	AKVVKNKV	APPF	REAEFD	IMFGE	GISKEGE	I	IDY	GV	KLD	IVDKSGAWLSYQDK 298									
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAK	AKVVKNKV	APPF	REAEFD	IMFGE	GISKEGE	I	IDY	GV	KLD	IVDKSGAWLSYQDK 298									
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRSLSDTGKIKDKSGEV	IGNRTK	VVVKNKV	APPF	KS	AEFDIMY	GEGVSK	VGE	ILD	VAT	DL	DI	IQKSGSWFSYQDT 309								
NTDB id 401820 GKS42 RS09635 WP 154793627.1	RIDVRRRIET....L.KEGTDA	VANRTA	KVVKNK	MAPP	FKQAEFD	IVYGV	GISRE	GL	IDL	GV	EHG	IV	RKSGAWYTIEGD 298								
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGDEI	IGSETK	VVVKNKV	APPF	REVQFD	IMYGE	GISRM	NELL	I	LA	ANG	F	IKKSGAWFSYDGT 312								
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETRV	KV	IKNKV	APPF	QAEFD	DILYGE	GISW	EGEL	ID	IG	VKND	I	INKSGAWYSYNGA 296							
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NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	VGSE	TRV	VVVKNKV	APPF	QAEF	QILY	GKGI	Y	R	NGE	I	DL	GV	QGL	VEKSGAWYAYKGS 295					
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGDEI	IGSE	TKV	VVVKNK	MAPP	FK	EA	I	FQ	I	LY	GK	GT	N	QL	LGEL	VD	LAV	QQ	NIV	QKAGAWYSYQGN 295
consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*!***	*****	**	***	!	!***!										

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NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKYLA	DNPEVFAEIDHQVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIEIE	383		
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE	E.....TDDLALDLNGIEIED.	378		
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NTDB id 1245 Cj1673c YP 002345041.1	KLGGQGR	ENSKAFLKENPEIADEITKAIQNSMGI	EGMISGS	EDDEGE..E.....	343	
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NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET	DGERP.....EE.....		348	
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NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFLRENAELAREIENKVREHLGV	TPMGAVTLA.EEVEED.....		352	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGG	KNNVIRYLEENPQISTEIEAV	IREQLLTKASDQTAA.HDETEE	EP.D..LLE.....S.....	349	
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NTDB	id	159	SP	RS09750	WP	001085462.1	E	388
NTDB	id	499	SM12261	RS08315	WP	078228268.1	E	384
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	E	384
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NTDB	id	453	Spy49	1753c	ACI62003.1	.	.	378
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NTDB	id	1214	NCTC11637	00359	SQJ03206.1	.	.	347
NTDB	id	1334	RA0C	RS04870	WP	004918236.1	.	343
NTDB	id	401820	GKS42	RS09635	WP	154793627.1	.	350
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
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NTDB	id	1022	ACIAD	RS06390	WP	004925639.1	.	349
consensus								

- X non conserved
- X similar
- X $\geq 50\%$ conserved