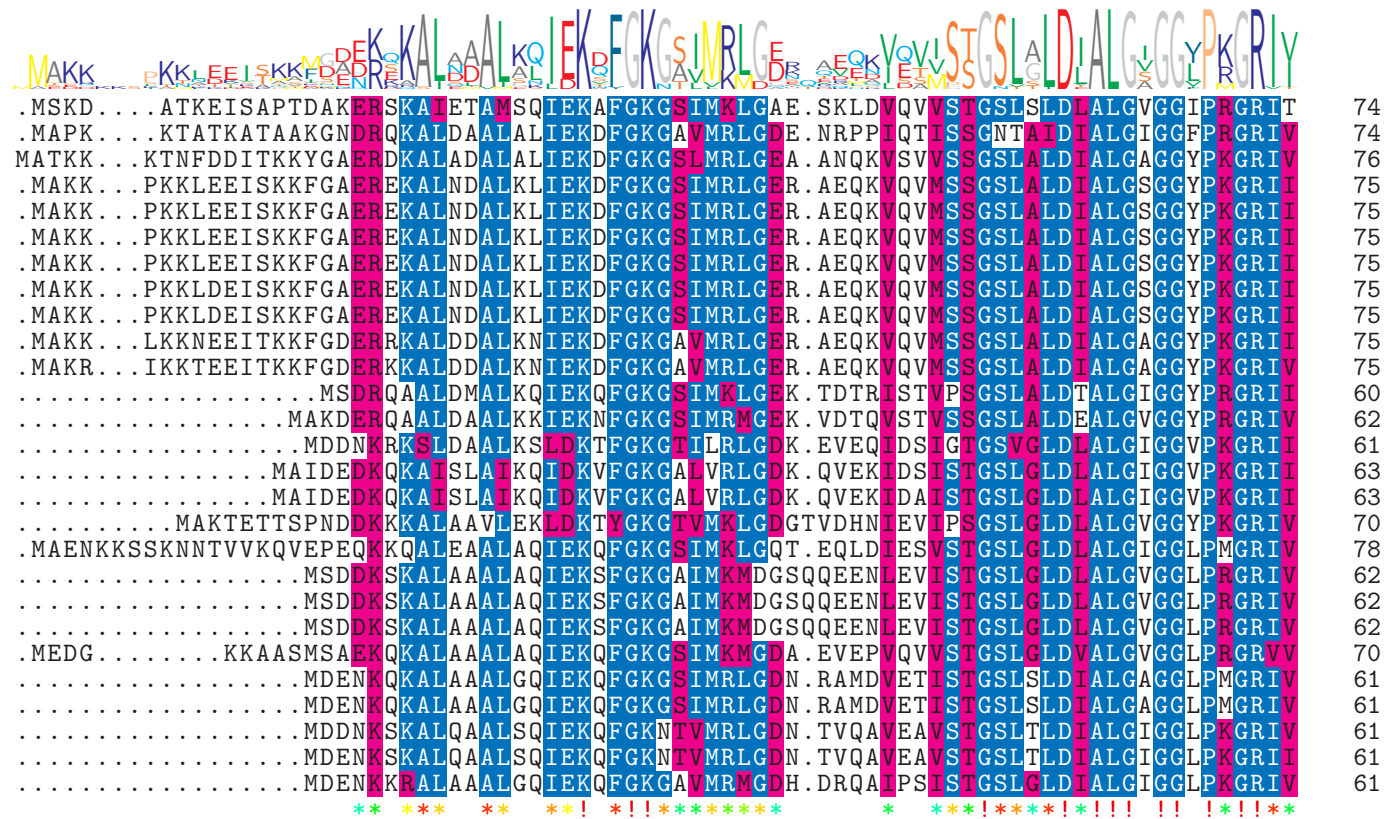


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NTDB id 1123 OK783 RS03845 WP 003688695.1
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consensus

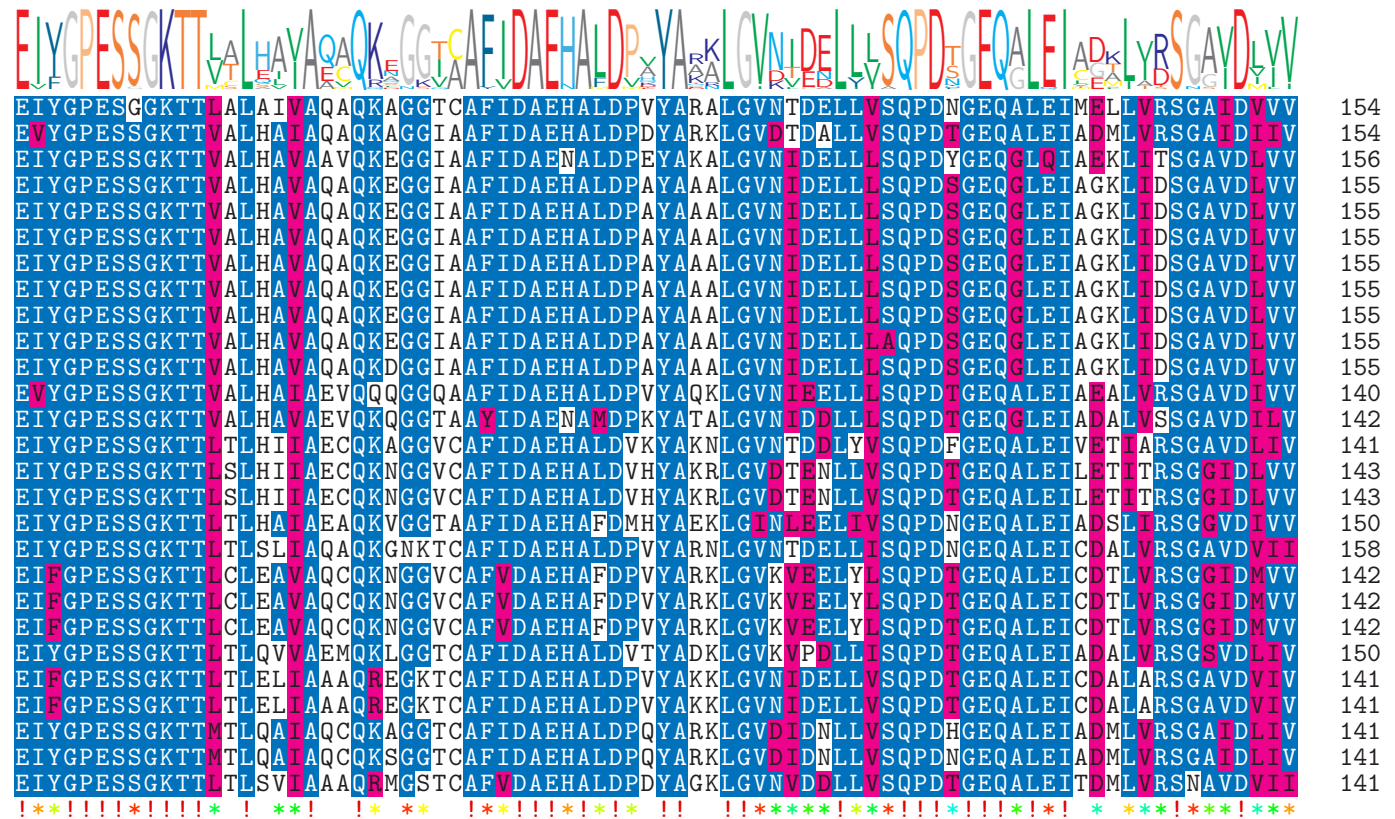
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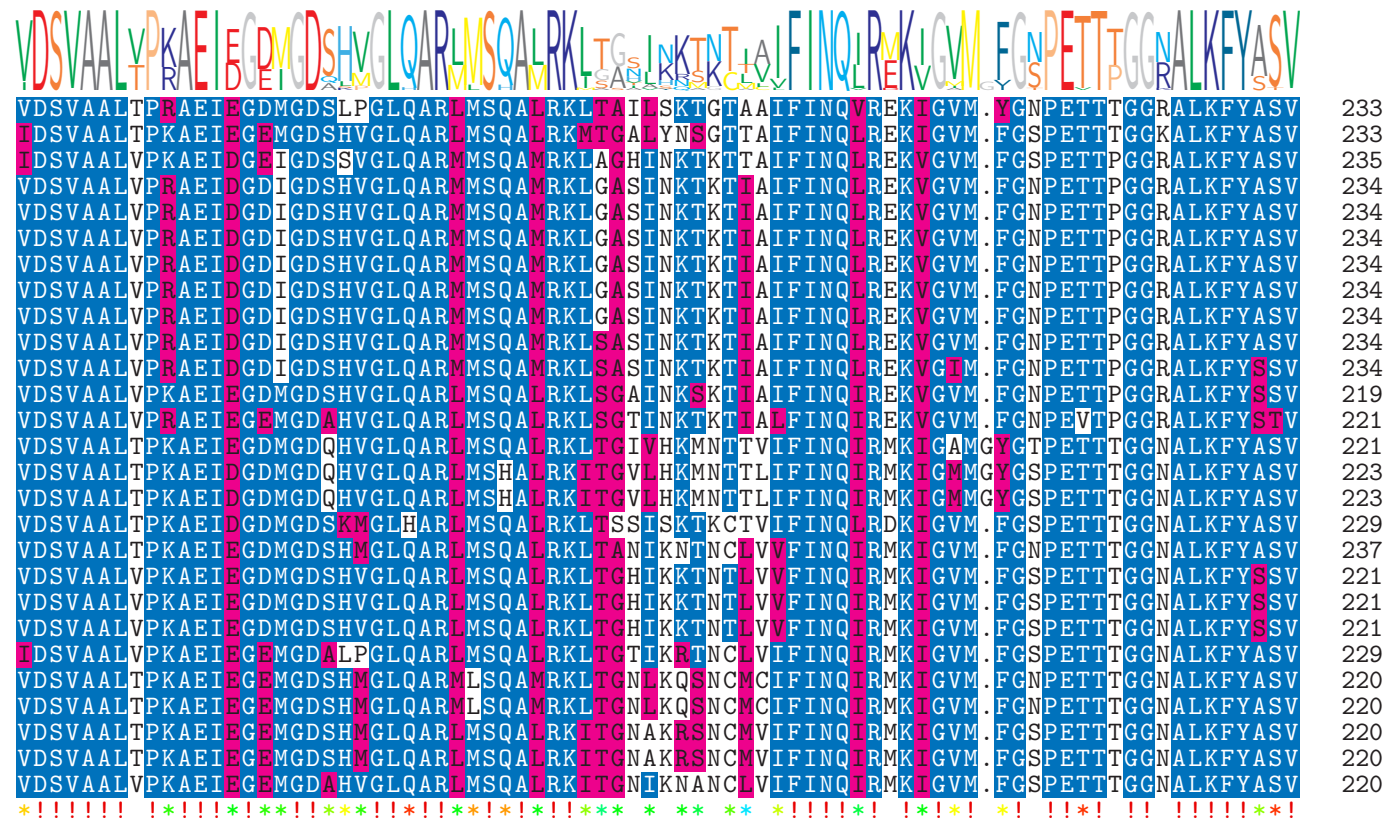
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consensus

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consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQ...PTKVGND	AVANTV	KIKTVKNKVA	APPFKE	VELALVY	GKGFD	QLSD	DLVGLA	ADMDI	IKKAGS	FYSY	GD	309
NTDB id 373572 FOL53 RS10680 WP 003857444.1	RCDIRRIQTLKDGQ....DA	IGNR	TRLKVVKNKV	SPPFK	IAEFD	IMYGEGIS	RESS	VIDL	AVDNGI	VKKSGS	WFTY	E	308
NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKIT	IKVVKNKV	APPFK	VALVD	IMFGEGIS	STGELL	NIAVEE	GI	IKKSGA	WFAY	N	314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVEIMY	GEGISK	TGELL	KIASD	LDI	IKKAGA	WYSY	313
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDSS	IGKETK	IKVVKNKV	APPFK	V	AEVEIMY	GEGISRT	GELV	KIASD	LDI	IKKAGA	WFSY	313
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFK	EA	FVEI	IYGEGISRT	GELV	KIASD	LGII	IKKAGA	WYSY	313
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....DV	MGNKTK	IKVVKNKV	APPFRT	AEVD	IMYGEGIS	KEGE	IIDL	GT	ELDIV	QKSGS	WYSY	294
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAEITIKNGT.....DM	IGNRARI	IKVVKNKV	APPFK	V	AEVD	IMYGGISRT	GELV	DMAVE	KDI	INKSGS	WYSY	296
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFR	QAEFD	VMFGEGL	SREGE	LIDY	GVKLD	IVDK	SGA	WFSY	296
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAKA	VVVKNKV	APPFRE	AEFD	IMFGEGIS	KEGE	IIDY	GVKLD	IVDK	SGA	WLSY	298
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAKA	VVVKNKV	APPFRE	AEFD	IMFGEGIS	KEGE	IIDY	GVKLD	IVDK	SGA	WLSY	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRSLSDTGKIKDKSGEV	IGNRTK	VVVKNKV	APPFK	S	AEFD	IMYGEGV	SKVGE	ILDV	ATD	LDI	IKKSGS	309
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSETK	VVVKNKV	APPFR	EVQFD	IMYGEGIS	RMNELL	ILAE	ANGF	IKKSGA	WFSY	D	312
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETR	VKVIVKNKV	APPFR	QAEFD	DILYEGE	ISWEGE	LIDIG	VKN	DI	INKSGA	WYSY	296
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETR	VKVIVKNKV	APPFR	QAEFD	DILYEGE	ISWEGE	LIDIG	VKN	DI	INKSGA	WYSY	296
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGEV	GNETK	VVVKNKV	APPFRE	AI	F	DILYGAG	V	SREGE	IIDL	GV	EAKV	304
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETRI	KVVKNK	IAAPFKE	ANTQIMY	GQGF	NREGEL	IDL	GV	VKH	MVEK	SGA	295
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETRI	KVVKNK	IAAPFKE	ANTQIMY	GQGF	NREGEL	IDL	GV	VKH	MVEK	SGA	295
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGDEI	IGSETK	VVVKNK	MAPPFRE	AI	FQILY	GKGV	NQLGE	LVDL	AV	QQN	IVQK	295
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	VGSETR	VVVKNKV	APPFR	QAEF	QILY	GKGI	YRNGE	IIDL	GV	VQQL	V	295
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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 373572 FOL53 RS10680 WP 003857444.1	QLGGGKEKVRLSLKENPELTDELEDKIFKKLGVGKYAAASDELTDTPV...ELVPNV.....DFDDEADTEAD	373
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	RLGGGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST....EE.....	355
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NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..HDETEEEP.DLL..E.....S.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ..I..EDEEEP.DLL..L.....ES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
consensus	**!!!!***** ** ***** ***** ** *	

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NTDB id 1313 DR RS12030 WP 010888966.1	E...	363
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NTDB id 269 KZH43 RS08665 WP 001085462.1	E..	388
NTDB id 228 SPD RS09265 WP 001085462.1	E..	388
NTDB id 194 SPR RS08825 WP 001085462.1	E..	388
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
NTDB id 453 Spy49 1753c ACI62003.1	...	378
NTDB id 408 SMU RS09530 WP 002262392.1	...	383
NTDB id 115 BSU 16940 NP 389576.2	...	348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved