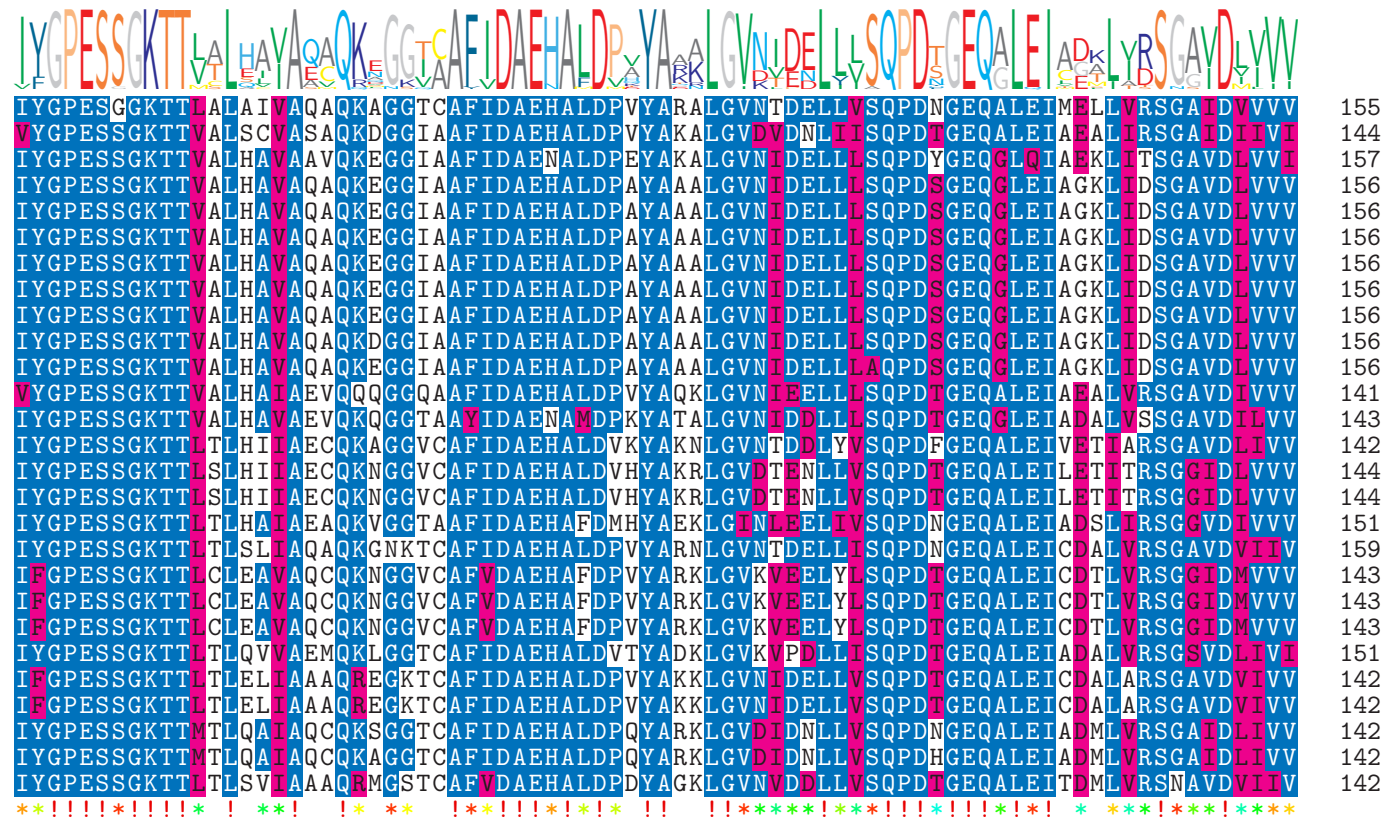



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NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 527 SMSK321 RS11065 WP 001085454.1
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NTDB id 1334 RA0C RS04870 WP 004918236.1
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NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

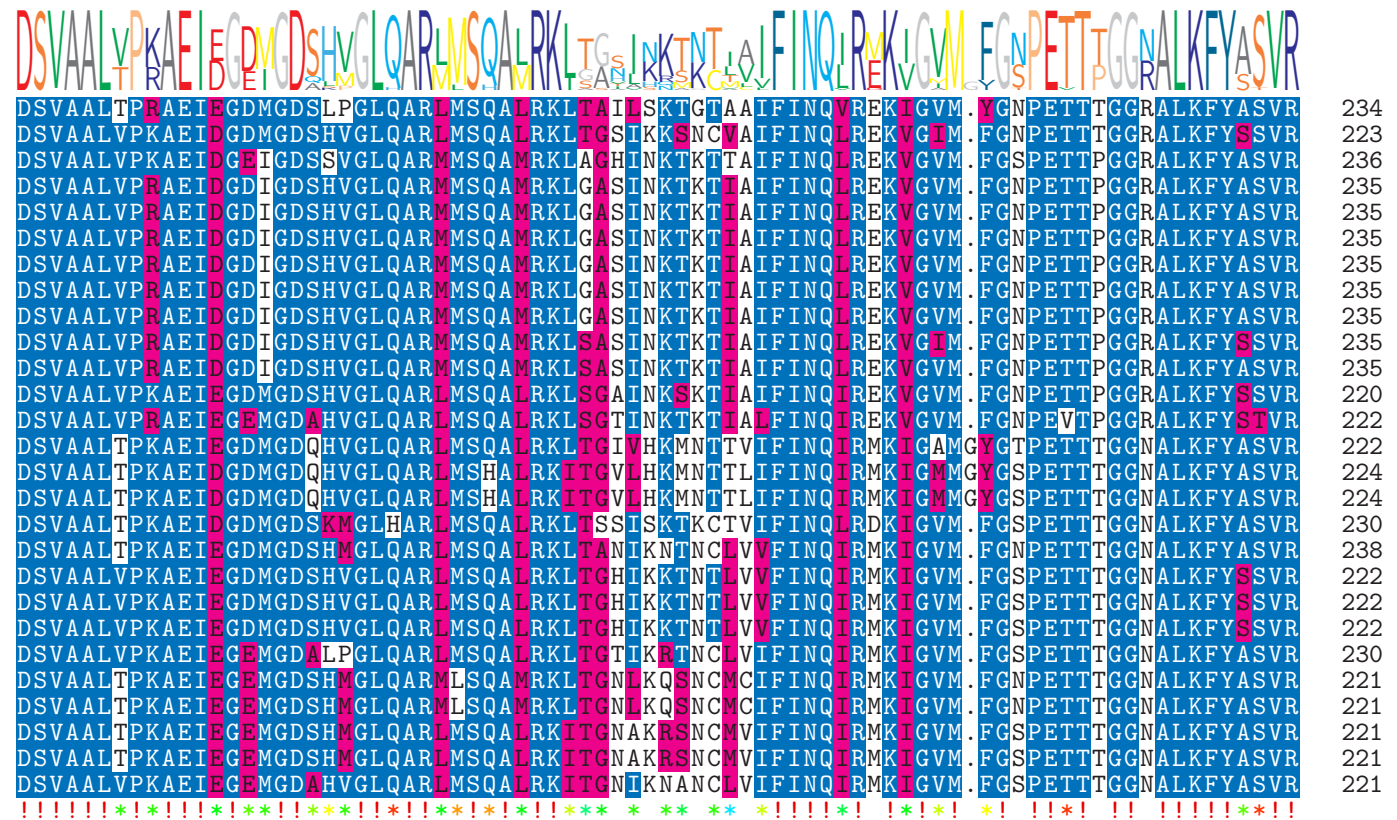
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	LDVRRIGQ...PTKVGND	AVANTV	IKTVKNKVA	APFKE	VELAL	VYGKG	FDQLS	DLVGL	AADMD	IT	KKAGS	FFSY	SGDER	310
NTDB id 322678 EBL91 RS06470 WP 003419530.1	LDVRKIDTIKQGD....KV	IGSRT	RVKVVKNKV	APPFK	QAEFD	IMYGEGIS	KIGD	LLDIA	ADV	DIV	KKSGS	SWYS	NDTK	298
NTDB id 600 KW2 RS01765 WP 011675413.1	LDVRGSTKIEEGS.GDNKTQ	IGKIT	IKVVKNKV	APPFK	VALVD	IMFGEGIS	STGELL	LNIA	VEEGI	IKKSG	AWFAY	NDEK	315	
NTDB id 269 KZH43 RS08665 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 228 SPD RS09265 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 194 SPR RS08825 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 159 SP RS09750 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 499 SM12261 RS08315 WP 078228268.1	LDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEI	IMYGEGIS	KTGELL	KIASD	LDI	IKKAG	AWYSY	KDEK	314	
NTDB id 408 SMU RS09530 WP 002262392.1	LDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFKE	AFVEI	IYEGIS	RTGEL	VKIASD	LGIT	IKKAG	AWYSY	NGEK	314	
NTDB id 453 Spy49 1753c ACI62003.1	LDVRGTTQIKGTG.DQKDS	IGKETK	IKVVKNKV	APPFK	VAEVEI	IMYGEGIS	RTGEL	VKIASD	LDI	IKKAG	AWFSY	NGEK	314	
NTDB id 115 BSU 16940 NP 389576.2	LEVRRAEQLKQGN.....D	VMGNK	TKIKVVKNKV	APPFR	TAEVD	IMYGEGIS	KEGETI	IDLG	TELDI	VQKSG	SWSY	YEER	295	
NTDB id 625 LCA RS02525 WP 011374196.1	LEVRRAETIKNGT.....D	MIGNR	ARIKVVKNKV	APPFK	VAEVD	IMYGGIS	RTGEL	VDMA	VEKDI	INKSG	SWSY	YSGER	297	
NTDB id 1245 Cj1673c YP 002345041.1	LDVRKVAT....L.KQNEEP	IGNRV	KVVKNKV	APPFR	QAEFD	VMFGEGL	SREGEL	IDYG	VKLDI	VDKSG	AWFSY	KDKK	297	
NTDB id 1211 C694 RS00795 WP 000963128.1	IDIRRIAS....L.KQNEQH	IGNRA	KA	KVVKNKV	APPFR	EAEFD	IMFGEGIS	KEGETI	IDYG	VKLDI	VDKSG	AWLSY	QDKK	299
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IDIRRIAA....L.KQNEQH	IGNRA	KA	KVVKNKV	APPFR	EAEFD	IMFGEGIS	KEGETI	IDYG	VKLDI	VDKSG	AWLSY	QDKK	299
NTDB id 1334 RAOC RS04870 WP 004918236.1	IDIRRSLSDTGKIKDKSGEV	IGNRT	KVVKNKV	APPFK	SAEFD	IMYGEGIS	VSKVGE	ILDV	ATDL	DI	IQKSG	SWFSY	QDTK	310
NTDB id 1389 A4U84 RS07560 WP 021112712.1	LDIRRCGV....V.KDGEI	IGSET	KVVKNKV	APPFR	REVQF	IMYGEGIS	RMNELL	LILAE	ANGFI	IKKSG	AWFSY	YDGT	313	
NTDB id 1130 NGFG RS03960 WP 003688695.1	LDIRRTGS....I.KKGEVL	GNETR	RVKVI	KNKVAPP	FRQAE	FDILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWYSY	NGAK	297
NTDB id 1124 NGFG RS03960 WP 003688695.1	LDIRRTGS....I.KKGEVL	GNETR	RVKVI	KNKVAPP	FRQAE	FDILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWYSY	NGAK	297
NTDB id 1123 OK783 RS03845 WP 003688695.1	LDIRRTGS....I.KKGEVL	GNETR	RVKVI	KNKVAPP	FRQAE	FDILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWYSY	NGAK	297
NTDB id 1427 RS RS02760 WP 011000510.1	LDIRRIGS....I.KKGEV	GNETR	KVVKNKV	APPFR	EAI	FDILY	GAGV	SREGEI	IDLG	VEAK	VVEK	SGAWYSY	NGER	305
NTDB id 1165 A1552VC RS01565 WP 000344154.1	LDIRRTGA....I.KEGEEV	VGNETR	IKVVKNK	IAAPF	KEANT	QIMYG	GGFNR	REGEL	IDLG	VKHKM	VEK	SGAWYSY	NGDK	296
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	LDIRRIGQ....V.KEGEI	VGSET	KVVKNK	MAPPF	KEAIF	QILY	GKGTN	QLGEL	VDL	VQQD	IVQK	AGAWYSY	QGNK	296
NTDB id 1022 ACIAD RS06390 WP 004925639.1	LDIRRIGQ....V.KEGEI	IGSET	KVVKNK	MAPPF	REAI	FQILY	GKGV	NQLGEL	VDL	VQQN	IVQK	AGAWYSY	QGNK	296
NTDB id 1205 PSJM300 05545 AFN77183.1	LDIRRTGA....V.KEGE	VGS	ETRVKVVKNKV	APPFR	QAEFQ	ILY	GKGIY	RNGE	IIDL	GVQQG	LVEK	SGAWY	AYKGS	296
consensus	***!*	*	**	*****!*****!*****!*	*	*****!*****	*****	***	***	!*****!	*			

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 322678 EBL91 RS06470 WP 003419530.1	LGQGGRENVKKFLEDNLDLTNEIDEKVRAFYNLNEEHEEEAGNSVSKEIVE.....E.....	348
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NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
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NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNNGIEIED..	378
NTDB id 115 BSU 16940 NP 389576.2	LGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGGRENSKAFLEKPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDRTVKELTKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWVKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEF.....SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.....GER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.....GER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.....GER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRNAREIAREIENKVRHLGVTPMGAV.TLAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKANACKYLVKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKANACKYLVKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEEP.D..LL.....LES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.D..LL.....ES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.D..I.....	347
consensus	*!!!!***** ** ***** ***** ** *	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved