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NTDB id 402643 FOC31 RS07345 WP 003428218.1
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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
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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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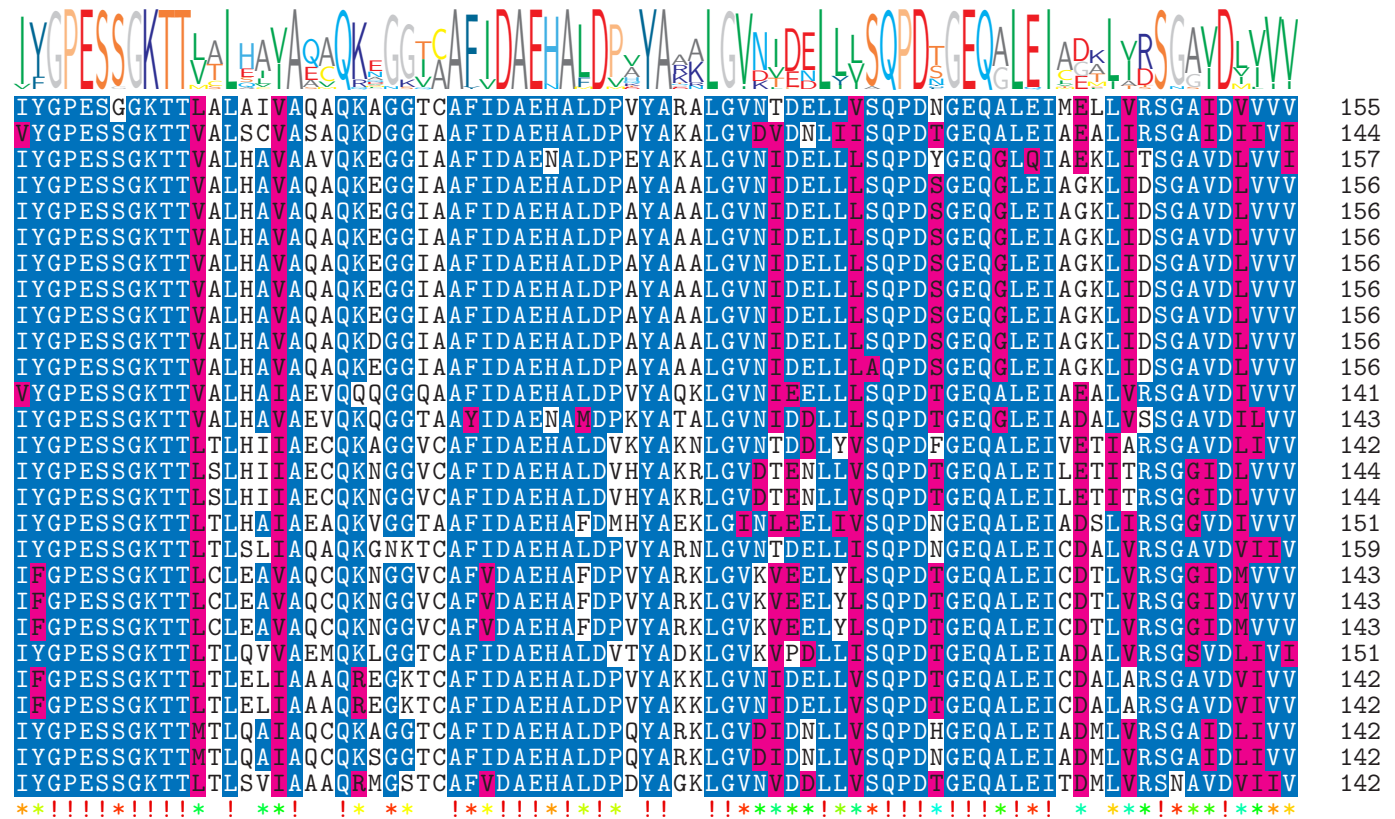
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

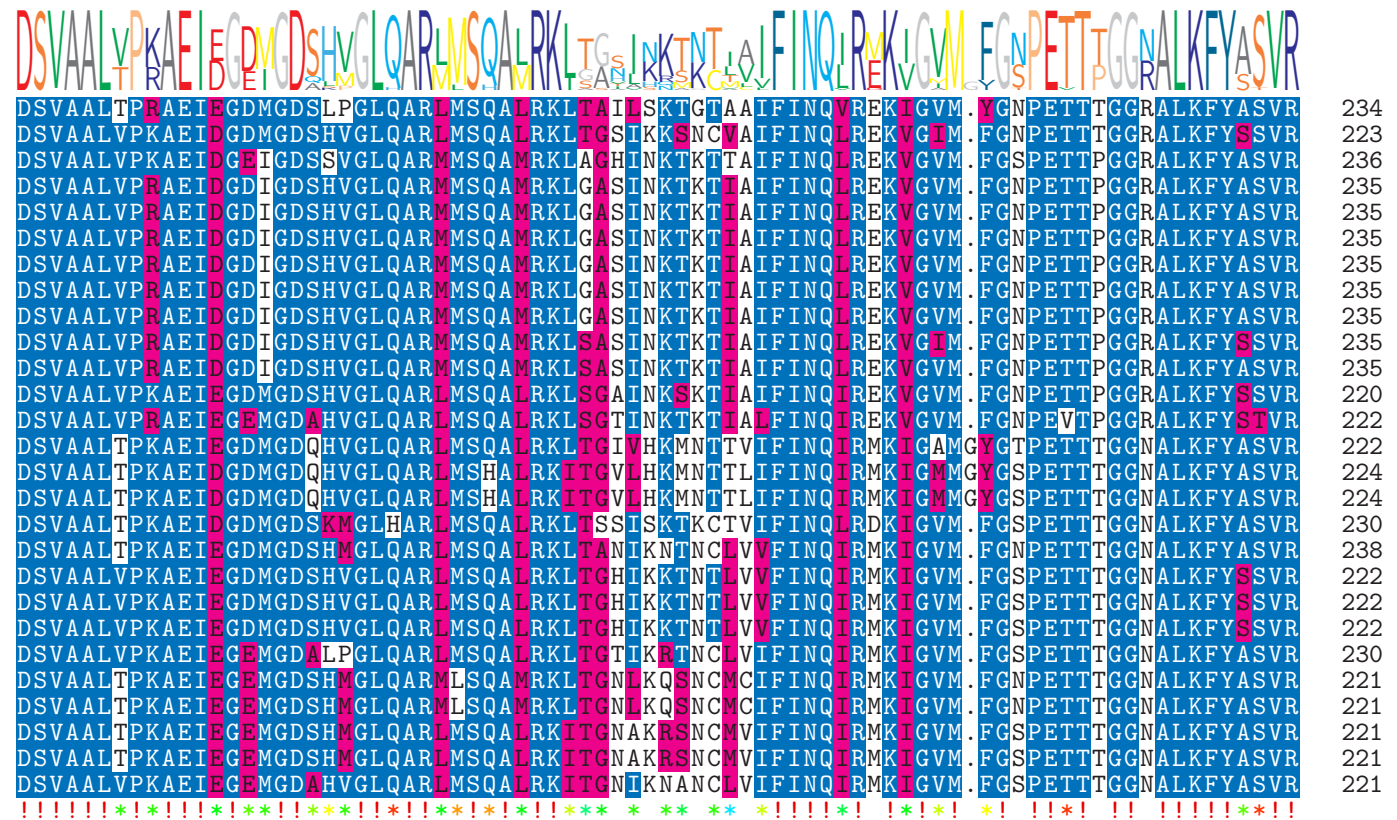
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	LDVRRIGQ...PTKVGND	AVANTV	IKTVKNKV	AAFFKE	VELAL	VYGKG	GFDQLS	DLVGL	AADMD	ITKKAG	SFY	SYG	DER	310						
NTDB id 402643 FOC31 RS07345 WP 003428218.1	LDVRRIDTIKQGD....KV	IGSRT	RVKVVKNKV	AAFFK	QAEFD	IMYGEG	ISKIG	DLLD	IAADV	DIVKK	SGS	WYS	YNDTK	298						
NTDB id 600 KW2 RS01765 WP 011675413.1	LDVRGSTKIEEGS.GDNKTQ	IGKIT	IKVVKNKV	AAFFK	VALVD	IMFGEG	ISSTG	ELLN	IAVEEG	ITKK	SGAW	FAY	NDEK	315						
NTDB id 269 KZH43 RS08665 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	AAFFKE	AVVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
NTDB id 228 SPD RS09265 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	AAFFKE	AVVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
NTDB id 194 SPR RS08825 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	AAFFKE	AVVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
NTDB id 159 SP RS09750 WP 001085462.1	LDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	AAFFKE	AVVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	AAFFKE	AFVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
NTDB id 499 SM12261 RS08315 WP 078228268.1	LDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	AAFFKE	AFVE	EIMYGEG	ISKTG	GELLK	IASDL	DIKK	KAG	AW	SYKDEK	314						
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NTDB id 453 Spy49 1753c ACI62003.1	LDVRGTTQIKGTG.DQKDS	IGKETK	IKVVKNKV	AAFFK	VAEV	EIMYGEG	ISRTG	GELVK	IASDL	DIQ	KAG	AW	FSYNGEK	314						
NTDB id 115 BSU 16940 NP 389576.2	LEVRRAEQLKQGN.....D	VMGNK	TKIKVVKNKV	AAFFR	TAEVD	IMYGEG	ISKEG	EIT	IDL	GTEL	DIVQ	KS	SWSYEEER	295						
NTDB id 625 LCA RS02525 WP 011374196.1	LEVRRAETIKNGT.....DM	IGNRA	RIKVVKNKV	AAFFK	VAEV	IMYGG	ISRTG	GELVD	M	AVEK	DI	IN	KS	SWSYGSER	297					
NTDB id 1245 Cj1673c YP 002345041.1	LDVRKVAT....L.KQNEEP	IGNRV	KVVKNKV	AAFFR	QAEFD	DVMFG	EGLS	REGEL	IDY	GVKL	D	IVDK	SGAWFSYKDKK	297						
NTDB id 1211 C694 RS00795 WP 000963128.1	IDIRRIAS....L.KQNEQH	IGNRA	KA	KVVKNKV	AAFFR	EAEFD	IMFG	EGIS	KEG	EIT	IDY	GVKL	D	IVDK	SGAWLSYQDKK	299				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IDIRRIAA....L.KQNEQH	IGNRA	KA	KVVKNKV	AAFFR	EAEFD	IMFG	EGIS	KEG	EIT	IDY	GVKL	D	IVDK	SGAWLSYQDKK	299				
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	LDIRRCGV....V.KDGEI	IGSET	KV	KVVKNKV	AAFFR	REVQ	FD	IMYGEG	ISRM	NELL	L	IL	A	E	ANGFI	KKSGAWFSYDGT	313			
NTDB id 1130 NGFG RS03960 WP 003688695.1	LDIRRTGS....I.KKGEVL	GNETR	RVKVI	KNKV	AAFFR	QAEFD	DILY	GEGIS	WEGEL	ID	IGV	KND	DI	IN	KS	GAWYSYNGAK	297			
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NTDB id 1123 OK783 RS03845 WP 003688695.1	LDIRRTGS....I.KKGEVL	GNETR	RVKVI	KNKV	AAFFR	QAEFD	DILY	GEGIS	WEGEL	ID	IGV	KND	DI	IN	KS	GAWYSYNGAK	297			
NTDB id 1427 RS RS02760 WP 011000510.1	LDIRRIGS....I.KKGEDEV	VGN	ETK	V	KVVKNKV	AAFFR	EAEFD	DILY	GAGV	S	REGE	I	ID	L	G	V	EAKVVEKSGAWYSYNGER	305		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	LDIRRTGA....I.KEGEEV	VGN	ETRI	KVVKNK	IA	APFKE	ANTQ	IMYG	GGF	N	REGEL	ID	L	G	V	KHKMVEKSGAWYSYNGDK	296			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	LDIRRTGA....I.KEGEEV	VGN	ETRI	KVVKNK	IA	APFKE	ANTQ	IMYG	GGF	N	REGEL	ID	L	G	V	KHKMVEKSGAWYSYNGDK	296			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	LDIRRIGQ....V.KEGDEI	IGSET	KV	KVVKNK	M	APPF	REAI	FQILY	GKGV	N	QLGEL	V	D	L	A	V	Q	Q	NIVQKAGAWYSYQGNK	296
NTDB id 1074 ABD1 RS10195 WP 000344167.1	LDIRRIGQ....V.KEGDEI	VGSET	KV	KVVKNK	M	APPF	KEAI	FQILY	GKGT	N	QLGEL	V	D	L	A	V	Q	Q	NIVQKAGAWYSYQGNK	296
NTDB id 1205 PSJM300 05545 AFN77183.1	LDIRRTGA....V.KEGDEV	VGS	ETRV	KVVKNKV	AAFFR	QAEFD	QILY	GKGI	YR	N	GEI	I	D	L	G	V	Q	Q	LVEKSGAWYAYKGS	296
consensus	***!*	*	*	*	*	*	*****!*****!*****!*****!*	*	*****!*****!*****!*****!*	*	*****!*****!*****!*****!*	*	*****!*****!*****!*****!*	*						

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 402643 FOC31 RS07345 WP 003428218.1	LGQGGRENVKKFLEDNLDLTTEIDEKVRAFYNLNEEHEESGTSVSKEIVE.....E.....	348
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NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....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	LGQGGRENASKAFLKENPEIADEITKAIQNSMGIEGMISGSEDD..EGEE.....	343
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEM.E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDRTVKELTKDNPELAELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWVKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEF.....SEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....PEE.....	348
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NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRNARELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	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 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.DLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL.....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAKYLVLENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
consensus	*!!!!***** ** ***** ***** ** *	

- non conserved
- similar
- ≥ 50% conserved