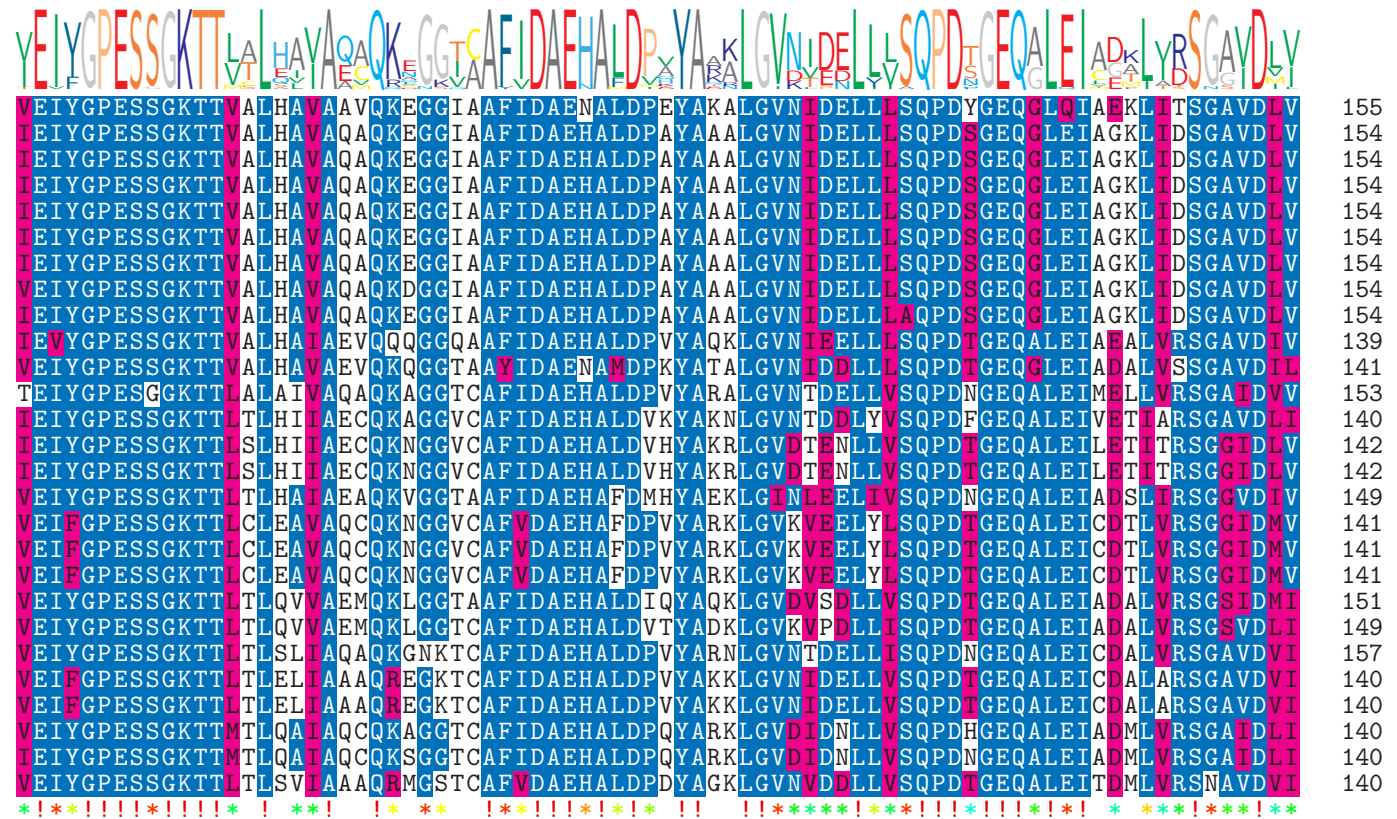


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NTDB	id	115	BSU	16940	NP	389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEKT.DTRIST	VPSGSLALDTALGIGGYPGRGI		59
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NTDB	id	1245	Cj1673c	YP	002345041.1		MDDNKRRKSLDAALKSLDKTFGKGTILRLGDKE.VEQIDS	IGTGSVLGLDALGIGGVPGKRI		60
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NTDB	id	1205	PSJM300	05545	AFN77183.1		MDENKKPALAAALGQIEKQFGKGAVMRMGDHD.RQAIV	ESTGSLGLDIALGIGGLPGRI		60
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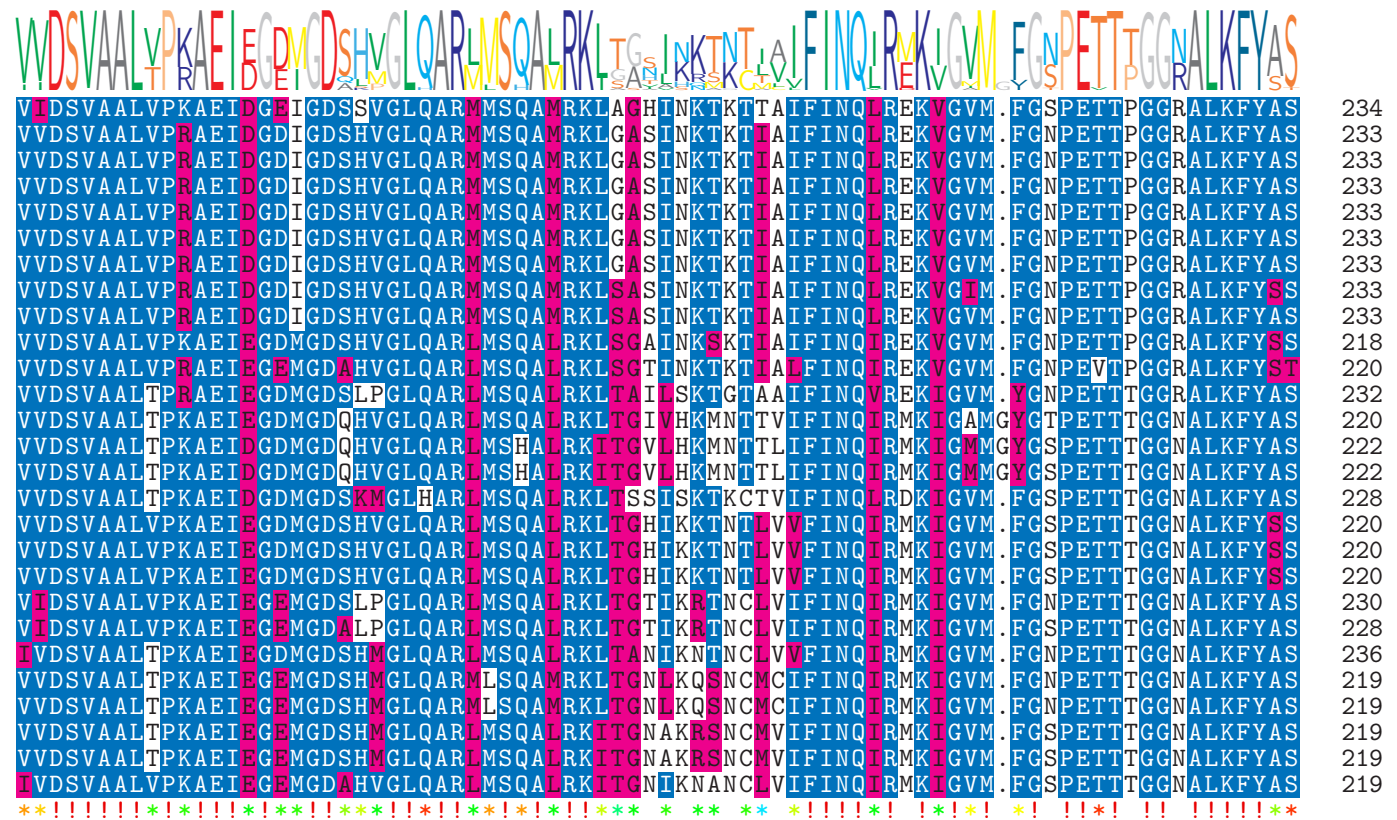
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NTDB id 1205 PSJM300 05545 AFN77183.1	VR	L	D	I	R	R	T	G	A	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	.	D	E	V	V	G	S	E	T	R	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	I	D	L	G	V	Q																

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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEKAVET	EIEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAES....K	KDE....AAQVDS..	VNEEVTLDLGDELEIE		381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	IDGEEAAES....K	KDE....VAQVDS..	VNEEVTLDLGDELEIE		381
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEEKQSSKE	K.....ETDEK..	ADKNLVLELDDTIELE		382
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVAS	E.....E.....	TDLDLALDLNGIEIE		377
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQ	EEL.EFE.E.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTEDE	..QI.NILPDDST....	EE.....		355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERP	PEMEQEIRDRVMAA	IRAGNAGEAPALAPAPA	APAAEA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAFLKENPEIA	DEITKAIQNSMG	TEGMISG..	SEDDEGEE.....			343
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENAKALLKEDKALA	DEITLKIKESIGS	NEEIMP..LPDEPLEEM	..E.....			347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENAKALLKEDKALA	DEITLKIKESIGS	NEEIMP..LPDEPLEEM	..E.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGG	RDTVKELIKDNPELA	EELEAKIREKLQAK					343
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGV	EMHITE..GTQDET	DGE.....RPEE			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGV	EMHITE..GTQDET	DGE.....RPEE			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGV	EMHITE..GTQDET	DGE.....RPEE			348
NTDB id 267176 C2L64 RS02445 WP 007586120.1	ERIGQG	KDNAREFLRENPDIA	REIENRIRESLGN	NAMPAG..AA.VSADEE	VGEEE			358
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENAEL	AREIENKVRHLGV	TPMGAV..TL.A...EE	VEED			352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPEIA	DKLEQEIENRNTLA	SNPNSVL..KATASDSN	DESVEE.....FSEEE	L		372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPEIA	KTLDKKLREMLLN	NPENMQL..IAETSSA	ADDVEFGA.....VPEEF			354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPEIA	KTLDKKLREMLLN	NPENMQL..IAETSSA	ADDVEFGA.....VPEEF			354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENPQIS	TEIEAVIREQLLT	TKASDQT..AA.HDETEE	EPDLL.....ES			349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYLEENPQIS	TEIEAVIREQLLT	TKASDQT..AA.HDETEE	EPDLL.....ES			349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEENPEI	GQIEIEQIRAKLL	VTSANTK..ATPVAED	LADADI.....			347
consensus	**!!!*****	**	*****	*****	**	*	*	

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		IEE	
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 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
NTDB id 1245 Cj1673c YP 002345041.1	...	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343	
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 267176 C2L64 RS02445 WP 007586120.1	...	358	
NTDB id 1427 RS RS02760 WP 011000510.1	...	352	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved