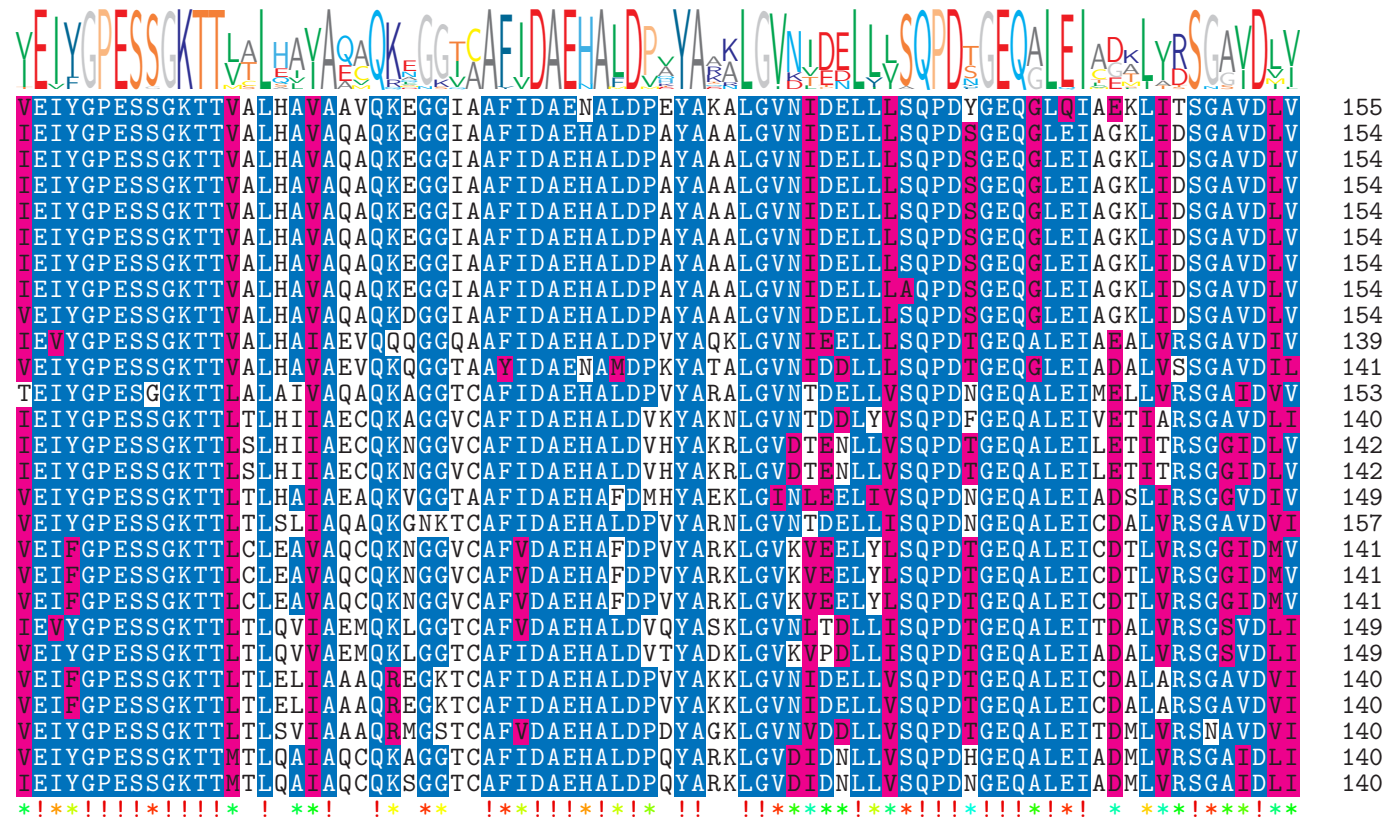


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NTDB id 269	KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 228	SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 194	SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 159	SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 527	SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 499	SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI			74																																					
NTDB id 453	Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKFGD	ERR	KAL	DDAL	KN	IEKD	FGKGA	VIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	AGGY	PKGRI			74																																					
NTDB id 408	SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKFGD	ERR	KAL	DDAL	KN	IEKD	FGKGA	VIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	AGGY	PKGRI			74																																					
NTDB id 115	BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEK	Q	FGKGS	IMKL	GEK	TD	R	IST	VP	SGSL	ALD	TAL	GIG	GY	PRGRI	59																																					
NTDB id 625	LCA RS02525 WP 011374196.1	MAKDRQAALDAALKK	IEKN	FGKGS	IMRM	G	EK	VD	T	Q	VST	V	SGSL	ALDE	AL	GV	GGY	PRGRI	61																																				
NTDB id 1313	DR RS12030 WP 010888966.1	MSKDATKEISAPTDAK	ERS	KA	TET	AMS	Q	IEKA	FGKGS	IMKL	G	AES	KL	D	V	Q	V	V	ST	G	S	L	S	L	D	L	A	L	G	V	G	G	I	P	R	G	R	I	73																
NTDB id 1245	Cj1673c YP 002345041.1	MDDNKRKSLDAALKS	L	D	K	T	F	G	K	G	T	I	L	R	L	G	D	K	E	V	E	.Q	I	D	S	I	G	T	G	S	V	G	L	D	L	A	L	G	I	G	G	V	P	K	G	R	I	60							
NTDB id 1214	NCTC11637 00359 SQJ03206.1	MAIDEDKQKATSLATK	Q	I	D	K	V	F	G	K	G	A	L	V	R	L	G	D	K	Q	V	E	.K	I	D	A	I	S	T	G	S	L	G	L	D	L	A	L	G	I	G	G	V	P	K	G	R	I	62						
NTDB id 1211	C694 RS00795 WP 000963128.1	MAIDEDKQKATSLATK	Q	I	D	K	V	F	G	K	G	A	L	V	R	L	G	D	K	Q	V	E	.K	I	D	S	T	G	S	L	G	L	D	L	A	L	G	I	G	G	V	P	K	G	R	I	62								
NTDB id 1334	RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKK	K	A	L	A	V	L	E	K	L	D	K	T	Y	G	K	T	M	K	L	G	D	T	V	D	H	N	I	E	V	I	P	S	G	S	L	G	L	D	L	A	L	G	V	G	G	P	K	G	R	I	69	
NTDB id 1389	A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEP	EQK	Q	K	A	L	E	A	A	L	A	Q	I	E	K	Q	F	G	K	G	S	IMKL	G	Q	T	E	Q	L	.D	I	E	S	V	T	G	S	L	G	L	D	L	A	L	G	I	G	G	L	P	M	G	R	I	77
NTDB id 1130	NGFG RS03960 WP 003688695.1	MSDDKSKALAAAL	A	Q	I	E	K	S	F	G	K	G	A	IMK	M	D	G	S	Q	Q	E	E	N	.L	E	V	I	S	T	G	S	L	G	L	D	L	A	L	G	V	G	G	L	P	R	G	R	I	61						
NTDB id 1124	NGFG RS03960 WP 003688695.1	MSDDKSKALAAAL	A	Q	I	E	K	S	F	G	K	G	A	IMK																																									

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
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NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
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consensus

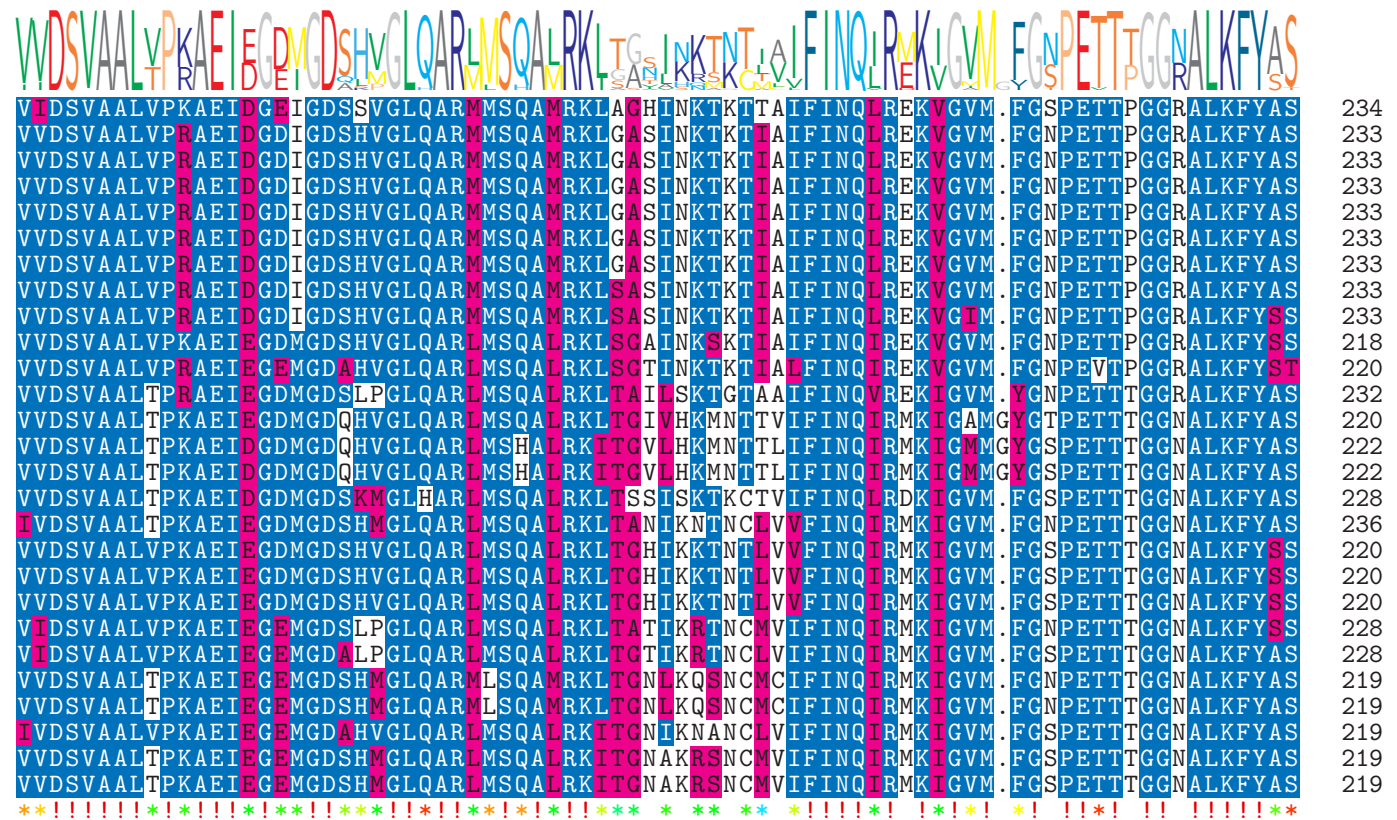
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consensus

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logo

NTDB id 600 KW2 RS01765 WP 011675413.1	VR	L	D	V	R	G	S	T	K	I	E	E	G	S	.	G	D	N	K	T	Q	I	G	K	I	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	L	V	D	I	M	F	G	E	G	I	S	T	G	E	L	I	N	I	A	V	E	E	G	I	I	K	K	S	G	A	W	F	A	Y	N	D	313								
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NTDB id 1130 NGFG RS03960 WP 003688695.1	VR	L	D	I	R	R	T	G	S	.	.	.	.	.	.	.	.	.	.	I	.	K	K	G	.	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	Y	N	G	295
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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 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 271008 C4C75 RS06675 WP 0003812760.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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Sequence	Score
EKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAE..TEEETTASKTAKAKKKEEKAVETEEIELELED...	387
EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGSENAKKYLAADNPEVFAEIDHQVRVQFGLIDGEEAAE.....SKKDE...VAQVDS..VNEEVPLDLGDELEI	380
EKIGQGSENAKKYLAADNPEIFDEIDHQVRVQFGLIDGEEIAE.....SKKDE...AAQVDS..VNEEVPLDLGDELEI	380
EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEES..AMAVASE.....ETDEK..ADKNLVLELDDTIEL	376
EKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEE..KQSSKEK.....ETDEK..ADKNLVLELDDTIEL	381
ERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNGGVVQQ..QAETQEEL.EFE.E.....	348
ERIGGGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDL..PTTEDE.QI.NILPDDST.....EE.....	355
ERIGGGKEKTIAYIAERPMEQEITDRVMMAIRAGNAGEAPALAPAPAAPEAA.EA.....	363
KKLGGGRENKAFLENPEIADEITKAIQNSMGIEGMIS..GSE....DDEGE.E.....	343
KKLGGGRENKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME.....	347
KKLGGGRENKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME.....	347
TKLGGGRDVTVKELIKDNPELAELEAKIREKLQAK.....	343
TKIGQGNNAVKWLKENPEIADKLEQEI RNTLASNPNSV..LKATASDSND..ES.DVEEF.....SEEL.....	372
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
NRIGQKDNVREYLKEHKEMAEIENKVRNQIVSRAA..T.FPASEAEDGE.....	353
ERIGGGRDNCREFLRNARELARIENKVRHLGVTPMGA..V.TLAEVEED.....	352
DKIGQKANAACKYLKENPEIAKTLDDKKLREMLLNPNMQ..LIAETSSAADV.EFGAV.....PEEF.....	354
DKIGQKANAACKYLKENPEIAKTLDDKKLREMLLNPNMQ..LIAETSSAADV.EFGAV.....PEEF.....	354
SKIGQKANAACKYLEENPEIGQETIEQQIRAKLLVTSANT..KATPVAEDLADA.DI.....	347
NKIGQGNNVIRYLEENPQISTEIEAVIREQLLTKASDQ..TAA.HDETEEEP.DLL.....ES.....	349
NKIGQGNNVIRYFEENNQIAEIERNI REQLLTGTNG..AVQ.I.EDEEEP.DLL.....LES.....	349

logo

		EIEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	....		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE		388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE		384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE		384
NTDB id 453 Spy49 1753c ACI62003.1	ED..		378
NTDB id 408 SMU RS09530 WP 002262392.1	ED..		383
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 1214 NCTC11637 00359 SQJ03206.1	....		347
NTDB id 1211 C694 RS00795 WP 000963128.1	....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	....		343
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 271008 C4C75 RS06675 WP 003812760.1	....		353
NTDB id 1427 RS RS02760 WP 011000510.1	....		352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	....		354
NTDB id 1205 PSJM300 05545 AFN77183.1	....		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....		349
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved