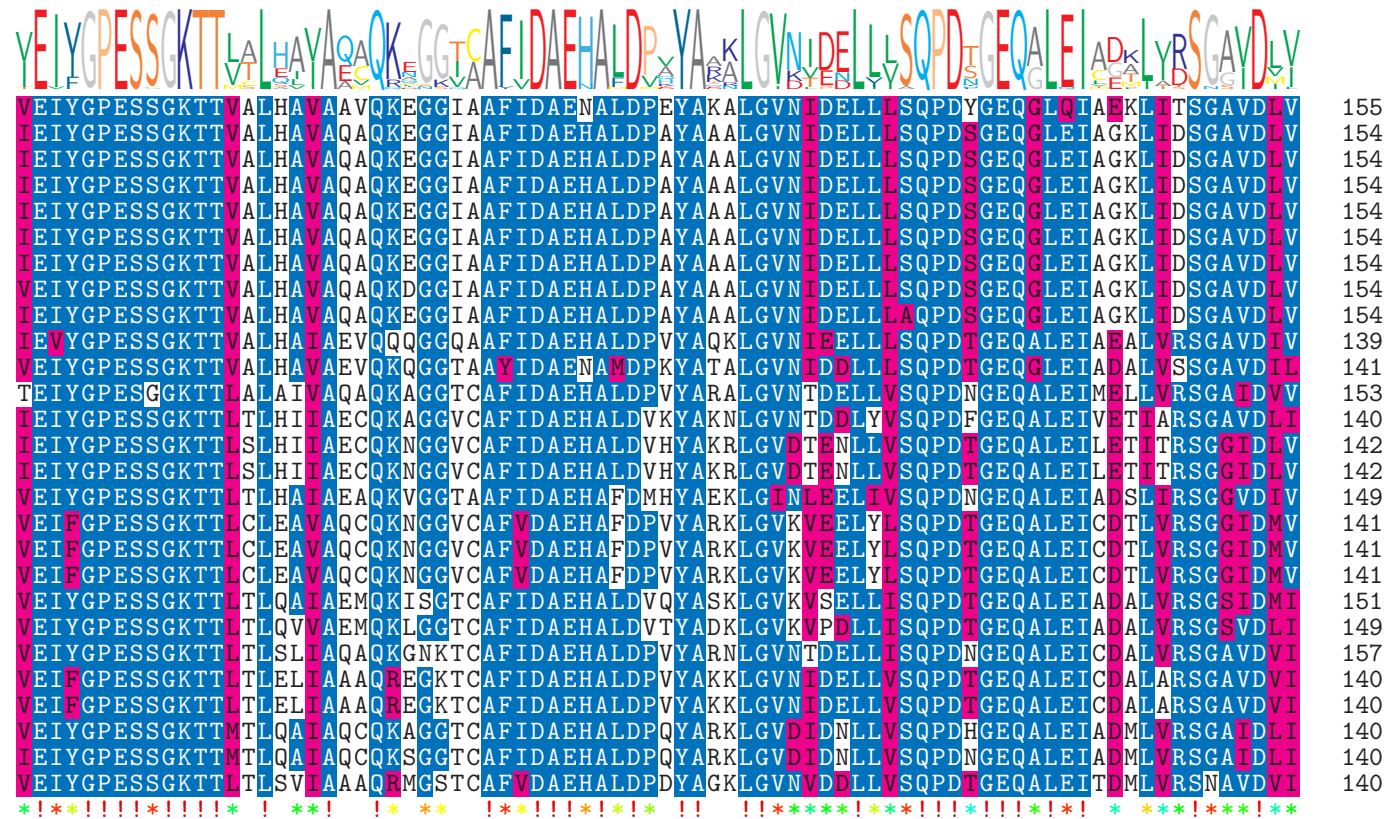


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NTDB	id	269	KZH43	RS08665	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	228	SPD	RS09265	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	194	SPR	RS08825	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	159	SP	RS09750	WP	001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	.MAK...	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	499	SM12261	RS08315	WP	078228268.1	.MAK...	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	SGGY	PK	GR	74				
NTDB	id	408	SMU	RS09530	WP	002262392.1	.MAK...	RIKKTEEITKKFGD	ERKKALDD	ALKN	IEKD	FGKG	AVMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	AGGY	PK	GR	74				
NTDB	id	453	Spy49	1753c	ACI62003.1		.MAK...	KLKKNEEITKKFGD	ERRKALDD	ALKN	IEKD	FGKG	AVMR	LGER	AE	.QKV	VQV	MSSG	SLALD	I	ALG	AGGY	PK	GR	74				
NTDB	id	115	BSU	16940	NP	389576.2		MSDRQAALD	MA	ALKQ	IEKQ	FGKG	SIMK	LGEK	TD	.TRIST	VPSG	SLALD	TD	I	ALG	GIGV	PR	GR	59				
NTDB	id	625	LCA	RS02525	WP	011374196.1		MAKDERQAALDA	ALKK	IEKN	FGKG	SIMR	MGEK	VD	.TQVST	VSSG	SLALD	E	ALG	VGGY	PR	GR		61					
NTDB	id	1313	DR	RS12030	WP	010888966.1		MSKDATKEISAP	TD	AKERSKAT	ET	AMSQ	IEKA	FGKG	SIMK	LGAESK	.LD	VQV	VSTG	SLSLD	L	ALG	VGGI	PR	GR	73			
NTDB	id	1245	Cj1673c	YP	002345041.1			MDDNKRK	SLDA	ALKS	LDKT	FGKG	TILRL	GDKEV	.EQ	IDS	IGTGS	VGLD	L	ALG	GIGV	PK	GR		60				
NTDB	id	1211	C694	RS00795	WP	000963128.1		MAIDEDKQK	KAISL	AIKQ	IDKV	FGKG	ALVRL	GDQV	.EK	IDS	ISTG	SLGLD	L	ALG	GIGV	PK	GR		62				
NTDB	id	1214	NCTC11637	00359	SQJ03206.1			MAIDEDKQK	KAISL	AIKQ	IDKV	FGKG	ALVRL	GDQV	.EK	IDA	ISTG	SLGLD	L	ALG	GIGV	PK	GR		62				
NTDB	id	1334	RAOC	RS04870	WP	004918236.1		MAKTET	ET	SPND	DKK	KALAAV	LEK	LDKT	YGKG	TVML	GLDGTVD	HN	.IEV	IPSG	SLGLD	L	ALG	VGGY	PK	GR	69		
NTDB	id	1130	NGFG	RS03960	WP	003688695.1		MSDDK	S	KALAA	ALA	QIEK	S	FGKG	AIMK	MDGS	SQ	Q	EE	N	LEV	ISTG	SLGLD	L	ALG	VGGL	PR	GR	61
NTDB	id	1124	NGFG	RS03960	WP	003688695.1		MSDDK	S	KALAA	ALA	QIEK	S	FGKG	AIMK	MDGS	SQ	Q	EE	N	LEV	ISTG	SLGLD	L	ALG	VGGL	PR	GR	61
NTDB	id	1123	OK783	RS03845	WP	003688695.1		MSDDK	S	KALAA	ALA	QIEK	S	FGKG	AIMK	MDGS	SQ	Q	EE	N	LEV	ISTG	SLGLD	L	ALG	VGGL	PR	GR	61
NTDB	id	413290	GJV44	RS03590	WP	226806911.1	MEES		KKSLAGL	TA	EK	S	KALAAV	ALSQ	IERQ	FGKG	SIMR	LDGE	V	VED	IQV	VSTG	SLGLD	I	ALG	VGGL	PR	GR	71

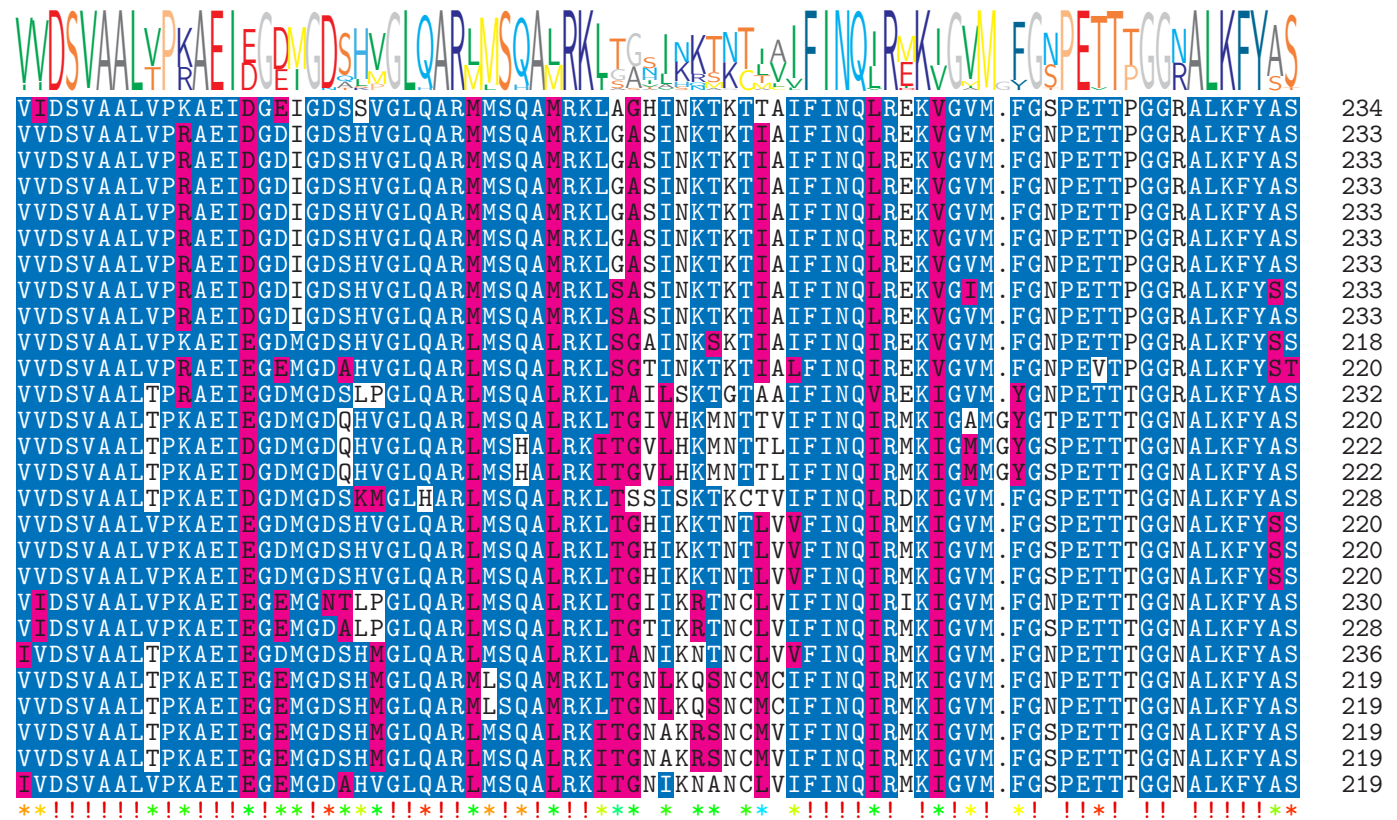
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consensus



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NTDB id 1142 GTF74 RS11550 WP 000344154.1	VR	L	D	I	R	R	T	G	A	.	.	.	.	.	.	.	.	.	.	I	.	K	E	G	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	Y	S	Y	N	G	294	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VR	L	D	I	R	R	I	G	Q	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	D	E	I	I	G	S	E	T	K	V	K	V	V	K	N	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	N	I	V	Q	K	A	G	A	W	Y	S	Y	Q	G	294	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VR	L	D	I	R	R	I	G	Q	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	D	E	I	I	G	S	E	T	K	V	K	V	V	K	N	K	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D	I	V	Q	K	A	G	A	W	Y	S	Y	Q	G	294	
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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDVFDEIDHKVRAAHGILDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEI	386
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEI	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEI	382
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED	383
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLDNNGIEIED	378
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE.A.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAFLEKENPEIADEITKAIQNSMCIEGMIS.....GSEDDEGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENAKALLKEDKALADEITLKIIGESIGSNEEIM....PLPDEPLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENAKALLKEDKALADEITLKIIGESIGSNEEIM....PLPDEPLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGG	RDTVKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGERP.....EE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGERP.....EE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKENPEISDEIDAKIRALNGVEMHIT....EGTQDETGERP.....EE.....	348
NTDB id 413290 GJV44 RS03590 WP 226806911.1	QKIGQG	KDNAREFLRENPIILACEIENRVRKSLGILVTPT.....AEVAEDKKK.....	353
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENAELAREIENKVREHLGVTPMGA....VTLAAEEVEED.....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLENPEIADKLEQEIENRNTLASNPNSV....LKATASDSNDES DVE..EFSEEEEL.....	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLLREMLLNPNENMQ....LIAETSSAADDVEFG..AVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPEIAKTLDKKLLREMLLNPNENMQ....LIAETSSAADDVEFG..AVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENPQISTEIEAVIREQLLTKASDQ....TAA.HDETEEEPDLL....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENNQIAEEIERNIREQLLTTGTNG....AVQ.I.EDEEEPDLL....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEENPEIGQIEEQIRAKLLVTSANT....KATPVAEDLADADI.....	347
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NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	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
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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

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