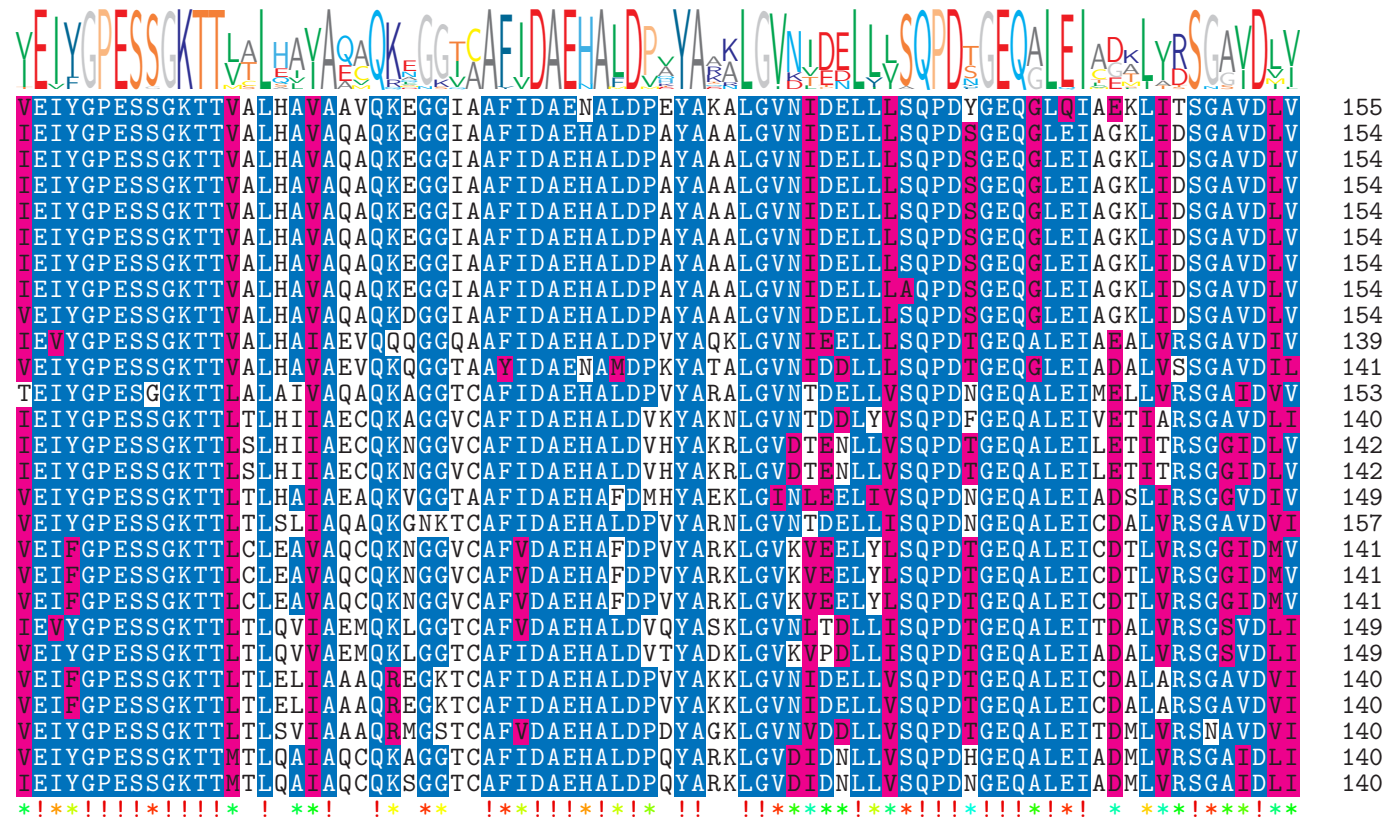


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NTDB	id	228	SPD	RS09265	WP	001085462.1	.MAK	...	KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	SIMRLGE	RAEQ	.KVQVMSSGSL	ALDI	IALG	SGGY	PKGRI	74																						
NTDB	id	194	SPR	RS08825	WP	001085462.1	.MAK	...	KPKKLEEISKKFGA	ERE	KAL	NDAL	KL	IEKD	FGKGS	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		MSD	DRQAAL	DMAL	KQ	IEK	Q	FGKGS	IMKLGE	KTD	R	IST	VS	SGSL	ALD	TALG	IGGY	PRGRI	59																				
NTDB	id	625	LCA	RS02525	WP	011374196.1		MAKD	ERQAAL	DAAL	KK	IEKN	FGKGS	IMRMGE	KVDT	R	Q	VST	V	SGSL	ALDE	ALGV	GGY	PRGRI	61																				
NTDB	id	1313	DR	RS12030	WP	010888966.1		MSKDAT	KEISAPTDAK	ERS	KA	TETAM	SQ	IEKA	FGKGS	IMKLGA	ESKL	D	VQV	V	TGSL	S	L	D	LALGV	GGI	PRGRI	73																	
NTDB	id	1245	Cj1673c	YP	002345041.1			MDDN	KRK	SL	DAAL	K	SL	DK	T	FGKGT	I	LRL	G	D	KEVE	.Q	IDS	I	G	T	G	S	V	G	L	D	LALGI	GGV	PKGRI	60									
NTDB	id	1214	NCTC11637	00359	SQJ03206.1			MAID	DKQ	KAT	ISLA	IK	Q	ID	K	V	FGKGA	L	VRL	G	D	KQVE	.K	IDA	I	S	T	G	S	L	G	L	D	LALGI	GGV	PKGRI	62								
NTDB	id	1211	C694	RS00795	WP	000963128.1		MAID	DKQ	KAT	ISLA	IK	Q	ID	K	V	FGKGA	L	VRL	G	D	KQVE	.K	IDS	I	S	T	G	S	L	G	L	D	LALGI	GGV	PKGRI	62								
NTDB	id	1334	RAOC	RS04870	WP	004918236.1		MAKT	..ETTSPND	DKKK	KALAA	VLEK	L	DK	T	Y	GKGT	V	M	K	L	G	D	G	T	V	D	H	N	I	E	V	I	P	S	G	S	L	G	L	D	LALGV	GGY	PKGRI	69
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	MAEN	KKSSKN	NTV	..VKQVEP	EQKK	QALAA	AL	Q	IEK	Q	FGKGS	IMKL	GQ	TEQL	.D	IES	V	T	G	S	L	G	L	D	LALGI	GGL	PMGRI	77											
NTDB	id	1130	NGFG	RS03960	WP	003688695.1		MSD	DKS	KALAA	AL	Q	IEKS	F	G	KGA	IMKM	D	G	S	Q	Q	EEN	L	E	V	I	S	T	G	S	L	G	L	D	LALGV	GGL	PRGRI	61						
NTDB	id	1124	NGFG	RS03960	WP	003688695.1		MSD	DKS	KALAA	AL	Q	IEKS	F	G	KGA	IMKM	D	G	S	Q	Q	EEN	L	E	V	I	S	T	G</															

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 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 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 273151 C5F13 RS06675 WP 003812760.1
NTDB id 1427 RS RS02760 WP 011000510.1
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consensus

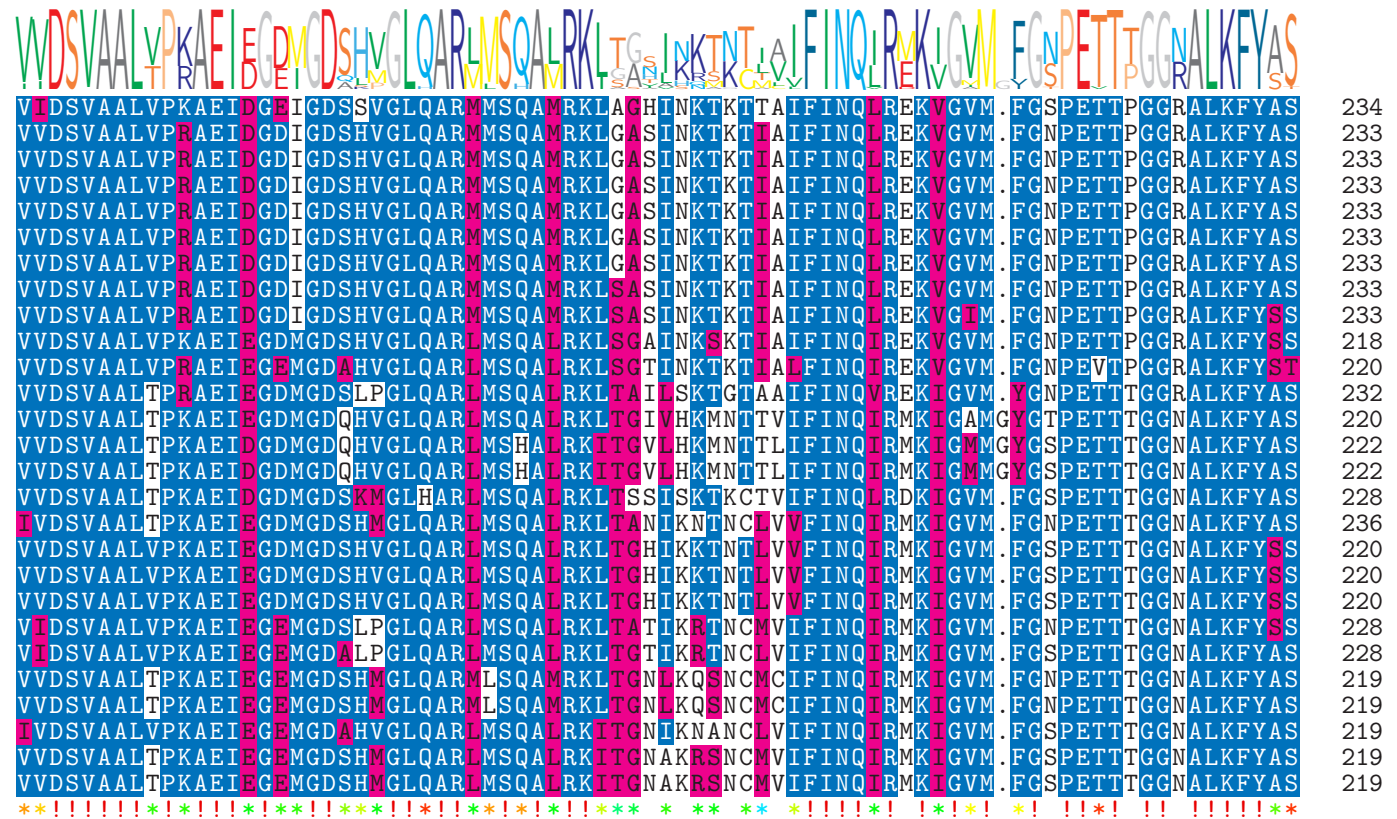
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logo

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NTDB id 1124 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 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 273151 C5F13 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
EKIGQGA EKAKNYLKEHQDV FDEIDHKVRAAHGLDDSEVAE..TEEETTASKTAKAKKKEEKAVETEEIELELED...	387
EKIGQGSENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGS ENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGS ENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGS ENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE..QDTENKKDE...PKKEEA..VNEEVPLDLGDELEI	384
EKIGQGS ENAKKYLA DNPEVFAEIDHQVRVQFGLIDGEEAAE.....SKKDE...VAQVDS..VNEEVPLDLGDELEI	380
EKIGQGS ENAKKYLA DNPEI FDEIDHQVRVQFGLIDGEEIAE.....SKKDE...AAQVDS..VNEEVPLDLGDELEI	380
EKIGQGS ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEES..AMAVASE.....ETD...TDDLALDLNGIEI	376
EKIGQGS ENAKKFLADNPEI FDDIDHKVRVQYGLIEEDNTEE..KQSSKEK.....ETDEK..ADKNLVLELDDTIEL	381
ERLGGGR ENAKQFLKENKDIMLMIQEQIREHYGLDNGGVVQQ..QAETQEEL.EFE.E.....	348
ERIGQGR ENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDL..PTTEDE.QI.NILPDDST.....EE.....	355
ERIGQGKEKTIAYIAERPMEQEITDRVM AAI RAGNAGEAPALAPAPAAPEAA.EA.....	363
KKLGGGR ENSKAFLKENPEIADEITKAIQNSMGIEGMIS..GSE....DDEGE.E.....	343
KKLGGGR ENAKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME.....	347
KKLGGGR ENAKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME.....	347
TKLGGGRD TVKELIKDNPELAELEAKIREKLQAK.....	343
TKIGQGKNNAVKWLKENPEIADKLEQEI RNTLASNPNSV..LKATASDSND ESDVEEF.....SEEL.....	372
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
AKIGQKDNVRVWLKENPEISDEIDAKIRALNGVMHIT..E.....GTQDE.TDGER.....PEE.....	348
NRIGQKDNVREYLKEHKEMAEIENKVRNQIVSRAA..T.FPASEAEDGE.....	353
ERIGQGRDNCREFLR ENAELARIENKVRHLGVTPMGA..V.TLAEVEED.....	352
DKIGQK KANACKYLKENPEIAKTLDDKKLREMLLNPNMQ..LIAETSSAADV.EFGAV.....PEEF.....	354
DKIGQK KANACKYLKENPEIAKTLDDKKLREMLLNPNMQ..LIAETSSAADV.EFGAV.....PEEF.....	354
SKIGQK KANAACKYLEENPEIGQEIEQQIRAKLLVTSANT..KATPVAEDLADA.DI.....	347
NKIGQKKNVIRYLEENPQISTEIEAVIREQLLTKASDQ..TAA.HDETEEEP.DLL.....ES.....	349
NKIGQKKNVIRYFEENNQIAEIERNI REQLLTGTNG..AVQ.I.EDEEEP.DLL.....LES.....	349

logo

		ELEE	
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 273151 C5F13 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