

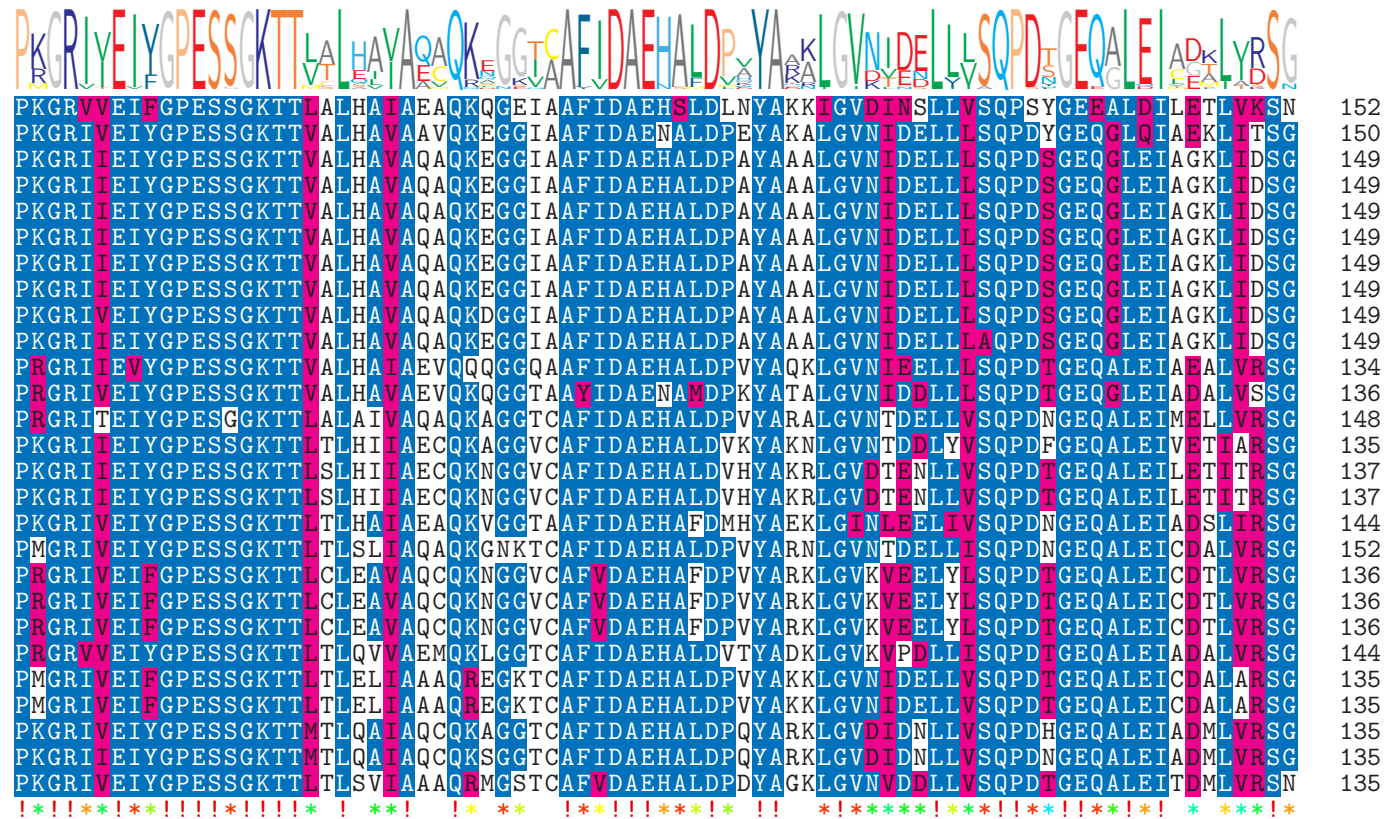
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NTDB id 240177 CG002 RS01040 WP 097351069.1	MSNSKIVEGASKTMSSKNEIW	KNEALISALKT	IEKNY	GKEAL	IVVYNE	G	DDIDHDV	ISSGS	FL	IDQA	IGIGGY	72	
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NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEIT....KKFGD	ERRKALDDALKN	IEKDF	GKGA	V	MRLGER	AEQKV	QVMSS	GSLALD	I	ALGAGGY	69	
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQ	IDKV	F	GKGA	LVR	LGDK	QVEK	IDA	ISTGSLGLDL	I	ALGIGGV	57
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ET....TSPND	DKKKALAAVLEK	LDKT	Y	GKGTVMK	LGDTVDHN	IEV	IPSGSLGLDL	I	ALGVGGY	64		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VK....QVEPEQ	KKQALEAALAAQ	IEKQF	GKGS	SIMKLQQT	EQLD	IESV	STGSLGLDL	I	ALGIGGL	72		
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAAQ	IEKS	F	GKGA	IMKMDGS	QREEN	LEV	ISTGSLGLDL	I	ALGVGGL	56	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQ	IEKQF	GKGS	SIMRLGDN	RAMD	VET	ISTGSLSLD	I	ALGAGGL	55		
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consensus			***	***	*	***	***	*****	*	***	*****	***	

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NTDB id 600 KW2 RS01765 WP 011675413.1
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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 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
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AVD	LY	WDS	VAA	LVP	KA	E	EG	MD	SH	GL	QAR	MS	QAL	RKL	TG	IN	KT	NT	LV	FIN	Q	IR	M	EG	N	P	ET	T	GG	N	A	L																																											
S	I	S	L	I	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	M	D	S	I	G	L	Q	A	R	M	S	K	A	R	K	L	N	G	V	I	S	K	S	K	T	T	V	I	F	I	N	Q	I	R	E	K	I	G	I	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	231
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NTDB id 269 KZH43 RS08665 WP 001085462.1	KFYASVRLDVRG	NTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 228 SPD RS09265 WP 001085462.1	KFYASVRLDVRG	NTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 194 SPR RS08825 WP 001085462.1	KFYASVRLDVRG	NTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 159 SP RS09750 WP 001085462.1	KFYASVRLDVRG	NTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KFYASVRLDVRG	STQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 499 SM12261 RS08315 WP 078228268.1	KFYASVRLDVRG	STQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVE	IMYGEGISKTGELLKIASDLDI	IKKAGAW	307
NTDB id 408 SMU RS09530 WP 002262392.1	KFYSSVRLDVRG	NTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVE	IIYEGEGISRTGELVKIASDLGI	IQKAGAW	307
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NTDB id 1313 DR RS12030 WP 010888966.1	KFYASVRLDVRK	IGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELA	LVYGGKGFQDLSDLVGLA	ADMDI IKKAGSF	303
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NTDB id 1123 OK783 RS03845 WP 003688695.1	KFYSSVRLDIR	RTGS....I.KKGE	EVLGNETR.VKV.IKNKVAPPFRQAEFD	DILYEGISWEGELIDIG	VKNDI INKSGAW	290
NTDB id 1427 RS RS02760 WP 011000510.1	KFYASVRLDIR	RIGS....I.KKGE	DEVGNETKIKVVKNKVAPPFREAI	FDILYGAGVSRGEIIDLG	VEAKVVEKSGAW	298
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KFYASVRLDIR	RTGA....I.KEGE	EVVGNETRIKVVKNKIAAPFKEANTQ	IMYGQGFNREGELIDL	GVKHKMVEKSGAW	289
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KFYASVRLDIR	RTGA....I.KEGE	EVVGNETRIKVVKNKIAAPFKEANTQ	IMYGQGFNREGELIDL	GVKHKMVEKSGAW	289
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NTDB id 1205 PSJM300 05545 AFN77183.1	KFYASVRLDIR	RTGA....V.KEGD	EVVGSSETRVKVVKNKVAPPFRQAEFQ	ILYGKGIYRNGEIIDLG	VQQGLVEKSGAW	289
consensus	!!*****!***!*		* ** *****!*****!*****!*	*	*****!***** ***** *	*** ! !**

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NTDB id 240177 CG002 RS01040 WP 097351069.1	YSYEKEKIGQGKNAVKEWLNKNPDKLSKIEFELKEFIEKS.....	346
NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDE	381
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NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDE	381
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGSENAKKYLAENPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDE	377
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGSENAKKYLAENPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDE	377
NTDB id 408 SMU RS09530 WP 002262392.1	YSYNGEKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDT	378
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNG	373
NTDB id 115 BSU 16940 NP 389576.2	YSYEEEEKIGQGSRENAKQFLKENKDIMLMIQEQIREHYGLDNGGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSEKIGQGSRENAKKNYLADHEDVEDEVRLKVRVQYGLISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGTKIGQGSNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSND..ESDVVEEFSEEEL.....	372
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NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQSKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGE..R.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQSKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGE..R.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AVTLA.EEVVEE..D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQGSNAACKYLKENPEIAKTLDDKLLREMLLNPNEM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQGSNAACKYLKENPEIAKTLDDKLLREMLLNPNEM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGNKIGQSKNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGNKIGQSKNNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGSKIGQSKANAACKYLEENPEIGQIEEQIRAKLLVTSAN....TKATPVAEDLA..DADI.....	347
consensus	**!* **!*!!***** ** ***** ***** ** *	

logo

NTDB id 240177 CG002 RS01040 WP 097351069.1	.....	346
NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	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 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 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 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