

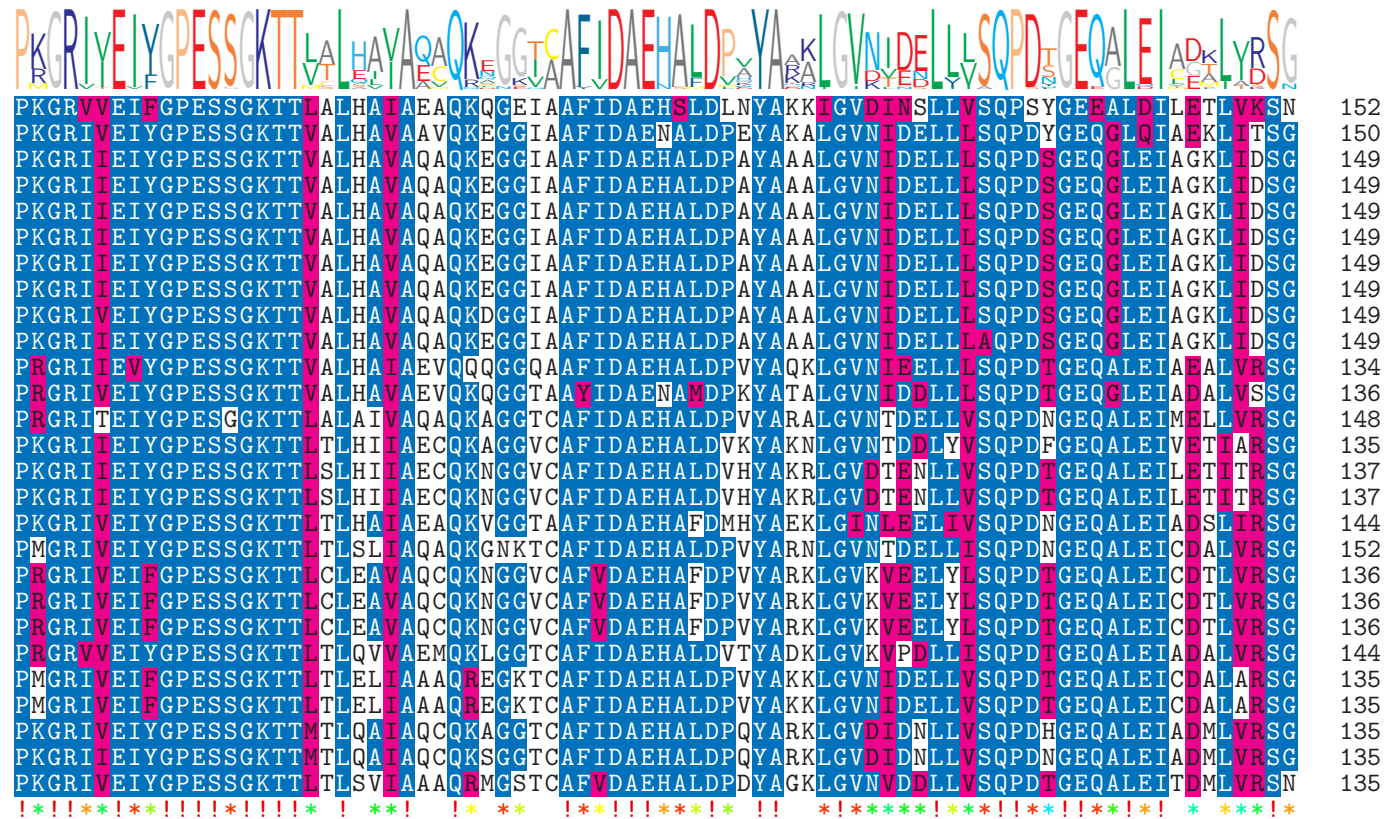
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NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEIS....KKFGA	EREKALNDALKL	IEKDF	GKGS	SIMRLGER	AEQKV	QVMSS	GSLALD	I	ALGSGGY	69		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEIS....KKFGA	EREKALNDALKL	IEKDF	GKGS	SIMRLGER	AEQKV	QVMSS	GSLALD	I	ALGSGGY	69		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEIS....KKFGA	EREKALNDALKL	IEKDF	GKGS	SIMRLGER	AEQKV	QVMSS	GSLALD	I	ALGSGGY	69		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEIS....KKFGA	EREKALNDALKL	IEKDF	GKGS	SIMRLGER	AEQKV	QVMSS	GSLALD	I	ALGSGGY	69		
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NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKK	IEKNF	GKGS	SIM	RMGEK	VD	TQVST	VSS	GSLALDE	I	ALGVGGY	56
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQ	IDKV	F	GKGA	LVR	LGDK	QVEK	IDA	ISTGSLGLD	I	LALGIGGV	57
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ET....TSPND	DKKKALAAVLEK	LDKT	Y	GKGTVMK	LGDTVD	HNIEV	IPSGSLGLD	I	LALGVGGY	64		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VK....QVEPEQ	KKQALEAALAQ	IEKQF	GKGS	SIM	KLQQT	EQ	LDIES	VSTGSLGLD	I	LALGIGGL	72	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQ	IEKS	F	GKGA	IMKMDGS	QREEN	LEVISTGSLGLD	I	LALGVGGL	56		
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NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KA....ASMSA	EKQKALAAALAQ	IEKQF	GKGS	SIM	KMGDA	EV	EPVQV	VSTGSLGLD	I	VALGVGGL	64	
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consensus			***	***	*	***	!!	*****	*	***!!	***!!	!!	

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NTDB id 249629 CQZ70 RS01095 WP 097351069.1
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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 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 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 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
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NTDB id 249629 CQZ70 RS01095 WP 097351069.1
NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 194 SPR RS08825 WP 001085462.1	KFYASVRLDVR	GNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	EIMYGEGIS	KTGEL	LKIASDL	DI IKK	AGAW 307		
NTDB id 159 SP RS09750 WP 001085462.1	KFYASVRLDVR	GNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVE	EIMYGEGIS	KTGEL	LKIASDL	DI IKK	AGAW 307		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KFYASVRLDVR	GSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	EIMYGEGIS	KTGEL	LKIASDL	DI IKK	AGAW 307		
NTDB id 499 SM12261 RS08315 WP 078228268.1	KFYASVRLDVR	GSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVE	EIMYGEGIS	KTGEL	LKIASDL	DI IKK	AGAW 307		
NTDB id 408 SMU RS09530 WP 002262392.1	KFYSSVRLDVR	GNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFKE	AFVE	EIIYGEGIS	RGTGEL	VKIASDL	GI IQK	AGAW 307		
NTDB id 453 Spy49 1753c ACI62003.1	KFYASVRLDVR	GTTQIKGTG.DQKDSS	IGKETK	IKVVKNKV	APPFK	VAEVE	EIMYGEGIS	RGTGEL	VKIASDL	DI IQK	AGAW 307		
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NTDB id 1313 DR RS12030 WP 010888966.1	KFYASVRLDVR	KIGQ....PTKVGND	AVANTVK	IKTVKNKVA	APFKE	VELAL	LVYGKGF	QDLSDL	VGL	LAADMDI IKK	AGSF 303		
NTDB id 1245 Cj1673c YP 002345041.1	KFYASVRLDVR	KVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFR	QAEFD	DMFGEGLS	REGEL	IDYGVKL	DI	VDKSGAW 290		
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	KFYASVRIDIR	RIAA....L.KQNEQH	IGNRAK	AKVVKNKV	APPFRE	AEFD	IMFGEGIS	KEGEI	IDYGVKL	DI	VDKSGAW 292		
NTDB id 1334 RAOC RS04870 WP 004918236.1	KFYASVRIDIR	RSLSDTGKIKDKSGEV	IGNRTKV	VVVKNKV	APPFKS	AEFD	DIMYGE	VSKVGE	ILDVATDL	DI IQK	SGSW 303		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KFYASVRLDIR	RCGV....V.KDGD	DEIIGSETKV	VVVKNKV	APPFREV	QFD	DIMYGEGIS	RMNELL	ILAEANGFI	IKKS	GAW 306		
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	KFYASVRLDIR	RIGQ....V.KEGD	EIVGSETKV	VVVKNKM	APPFRE	AI	FI	QILYGKGV	NQLGEL	VDLAVQQN	IVQK	AGAW 289	
NTDB id 1205 PSJM300 05545 AFN77183.1	KFYASVRLDIR	RTGA....V.KEGD	DEVVGS	ETRV	VVVKNKV	APPFR	QAEFQ	ILYGKGIY	RNGE	IIDL	LG	VQQGLVEKSGAW 289	
consensus	!!*****!***!*	*	**	*****!*****!*****!*	*	*****!*****	*****	***	***	!***			

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NTDB id 249629 CQZ70 RS01095 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
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDE.	381
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NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDE.	381
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NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNG	373
NTDB id 115 BSU 16940 NP 389576.2	YSYEEERLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.EFE.E.....	348
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLE..EME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDTKLGQGRDITVKELIKDNPELAELEAKIREKLQAK.....	343
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NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGE..R.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGE..R.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AVTLA.EEVEE..D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQKKNACKYLLKENPEIAKTLDDKKLREMLLNPNEM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQKKNACKYLLKENPEIAKTLDDKKLREMLLNPNEM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGNKIGQKKNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGNKIGQKKNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGSKIGQKKNAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLA..DADI.....	347
consensus	**!* **!*!!***** ** ***** ***** ** *	

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NTDB id 249629 CQZ70 RS01095 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		

- X non conserved
- X similar
- X ≥ 50% conserved