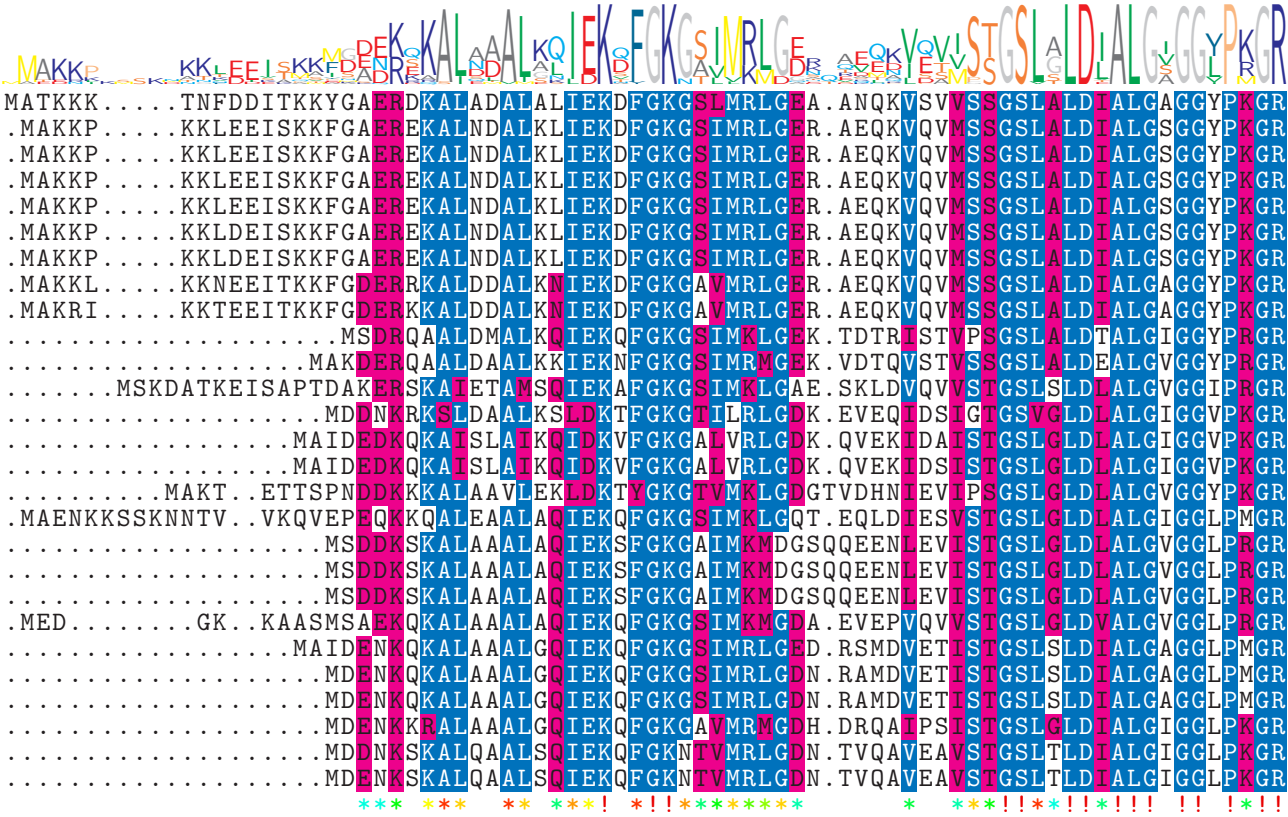


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
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 1427 RS RS02760 WP 011000510.1
NTDB id 272595 C5B80 RS02810 WP 000963143.1
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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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312							
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGE	GISKTGELLKIASDL	DI	IKKAGAWYSYK	311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKVAEVEIMYGE	GISRTGELVKIASDL	DI	IQKAGAWFSYN	311				
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEI	IYGE	GISRTGELVKIASDL	GII	QKAGAWYSYN	311			
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGE	GISKEGEIIDLGTEL	DI	VQKSGSWYSYE	292			
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVD	IMYGGISRTGELVDMAVEK	DI	INKSGSWYSYG	294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....	PTKVGND	AVANTVKIKTVKNKVAAPFKE	VELALVYGKGF	QDLS	DLVGLAADMDI	IKKAGSFYSYG	307		
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....	L.KQNEEP	IGNRVKVVKNKVAPPFRQAEF	DVMFG	EGLS	REGELIDYG	VKLDIVDKSGAWFSYK	294		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRDIRRIAA....	L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EA	FE	DIMFG	EGISKEGEIIDYG	VKLDIVDKSGAWLSYQ	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRDIRRIAS....	L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EA	FE	DIMFG	EGISKEGEIIDYG	VKLDIVDKSGAWLSYQ	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRDIRRSLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSA	AE	FDIMYGE	GVSKVGEILD	VATDLDII	QKSGSWFSYQ	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....	V.KDGDEI	IGSETKVVKNKVAPPFR	EVQFDIMYGE	GISRMNELLILAEANG	FI	KKSGAWFSYD	310		
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEF	DILYGE	GISWEGELIDIG	VKN	DI	INKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEF	DILYGE	GISWEGELIDIG	VKN	DI	INKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEF	DILYGE	GISWEGELIDIG	VKN	DI	INKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....	I.KKGE	DEV	VGNETKVVKNKVAPPFR	EA	IFDILYGA	GVSR	EGEIIDLG	VEAKVVEKSGAWYSYN	302
NTDB id 272595 C5B80 RS02810 WP 000963143.1	SVRLDIRRIGA....	V.KEG	ENV	VGSETRVKNKIAAPFKQAEFQ	ILYGE	GINFY	GELVDLGVKEK	LI	EKAGAWYSYK	295
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....	I.KEG	EEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGG	GFNR	REGELIDLG	VKHKMVEKSGAWYSYN	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....	I.KEG	EEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGG	GFNR	REGELIDLG	VKHKMVEKSGAWYSYN	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....	V.KEG	DEV	VGSETRVKNKIAAPFKQAEFQ	ILYGKGIYR	NGEIIDLG	VQGLVEKSGAWYAYK	293		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....	V.KEG	DEI	IGSETKVVKNKMAPPFR	EA	IFQILYGKGVNQLG	ELVDLAVQQNIV	QKAGAWYSYQ	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....	V.KEG	DEI	VGSETKVVKNKMAPPFK	EA	IFQILYGKGTNQLG	ELVDLAVQQDIV	QKAGAWYSYQ	293	
consensus	*!!**!* *	*	**	*****!*****!*****!*	*	*****!*****	*****	***	!*****!	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEE	EKAVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDELEIE		385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAES....	KKDE....AAQVDS	.VNEEVTLDLGDELEIE		381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	IDGEEAAES....	KKDE....VAQVDS	.VNEEVTLDLGDELEIE		381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLNNGIEIE		377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSS	KEK.....ETDEK	.ADKNLVLELDDTIELE		382
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENKDI	MLMIQEIREHYGL	DNNGVVQQAEET	QEEL.EFE.E.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHED	VEDEVRLKVRAA	YGISDVPEEDLP	TTTEDE.QI.NILP	DDST.....EE.....		355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIAERPE	MEQEIRDRVMAA	IRAGNAGEAPAL	APAPAAPEAA...E	A.....		363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEI	ADEITKAIQNSM	GTIEGM.....IS	GEDDEG.....EE			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDKA	LADAITLKIKES	IGSNEE.....IM	PLPDEPL.....E	EME.....		347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKA	LADAITLKIKES	IGSNEE.....IM	PLPDEPL.....E	EME.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDN	PELAEELEAKI	REKLQAK.....				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPE	IADKLEQEI	RNTLASNP.....	SVLKATASDSN...DE	SDVEEFSEEEL.....		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMH.....I	TEG.....T...Q	DETGERPEE.....		348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMH.....I	TEG.....T...Q	DETGERPEE.....		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMH.....I	TEG.....T...Q	DETGERPEE.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENA	EELAREIENKVR	EHLGVTPM.....	GAVTLAEE.VE...E	D.....		352
NTDB id 272595 C5B80 RS02810 WP 000963143.1	GEKIGQG	KANATAWLKDNPE	TAKIEKKVRELL	SNPN.....STP	DFSVD...D...D	SEGVAETNEDF.....		353
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLLKENP	EIAKTLDDKKL	REMLLNPN.....	MQLIAETSSAA...D	DVEFGAVPEEF.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLLKENP	EIAKTLDDKKL	REMLLNPN.....	MQLIAETSSAA...D	DVEFGAVPEEF.....		354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLEENP	EIGQIEQQIRAK	LLVTS.....NT	KATPVAEDL...A	DADI.....		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYLEENP	QISTEIEAVI	REQLLT	TKAS....DQTAA	.HDETE...EEP	DLLES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENN	QIAEEIERNI	REQLLT	TGT....NGAVQ	.I.EDE...EEP	DLLES.....	349
consensus	***!!!*****	**	*****	*****	**	*	*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	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 1427 RS RS02760 WP 011000510.1	...	352
NTDB id 272595 C5B80 RS02810 WP 000963143.1	...	353
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
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 ≥ 50% conserved