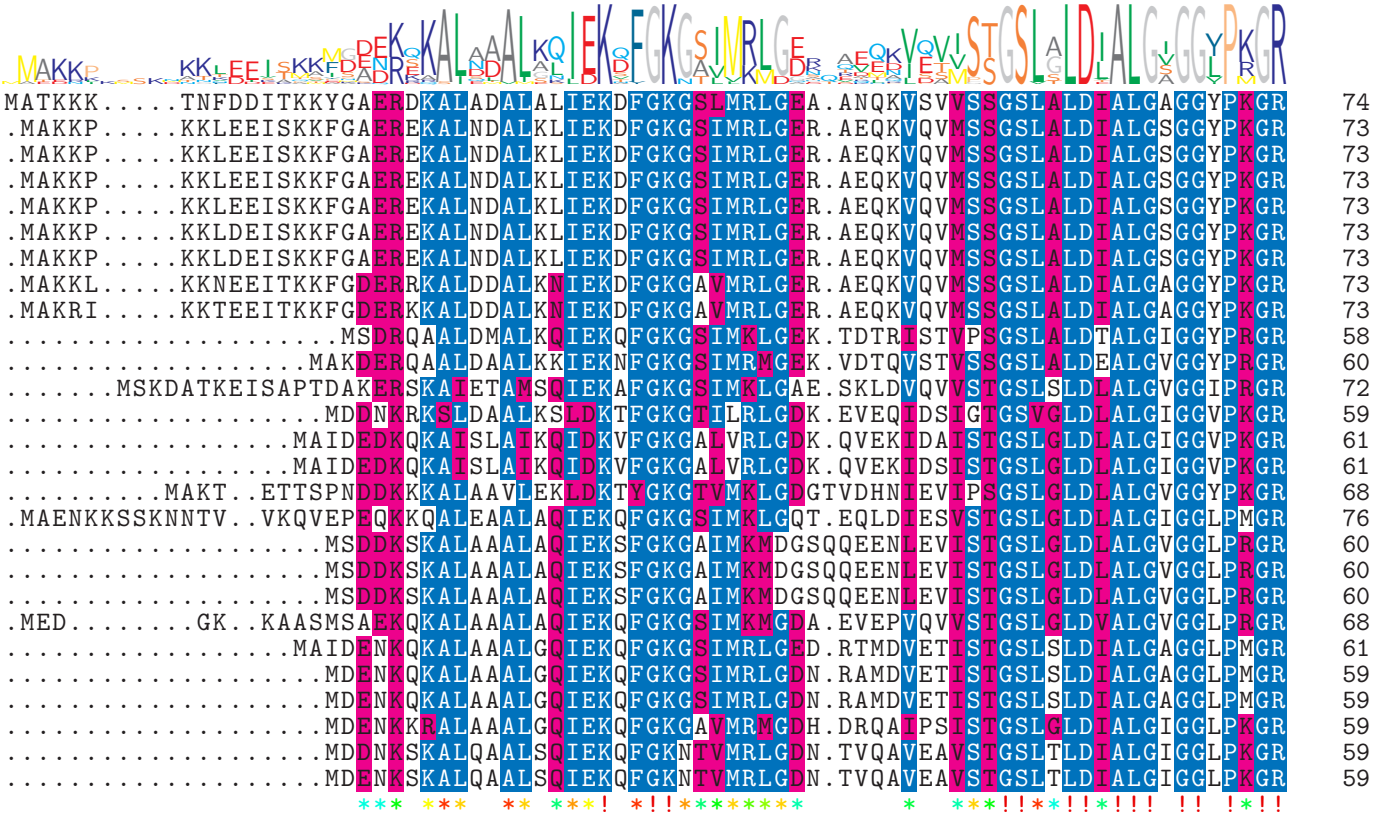


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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
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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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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK 311	
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK 311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK 311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVE	IMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK 311	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVE	IMYEGEGISKTGELLKIASDL	DIIKKAGAWYSYK 311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKEAEVE	IMYEGEGISRTGELVKIASDL	DIIQKAGAWFSYN 311	
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NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYEGEGISKEGEIID	LGTEL	DIVQKSGSWYSYE 292
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEE	PIGNRVKVVKNKVAPPFRQAEF	DVMFGEGLSREGELIDY	GVKLDIVDKSGAWFSYK 294	
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFD	IMYEGEGVSKVGEILDVAT	DL	DIQKSGSWFSYQ 307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFR	EVQFDIMYEGEGISRMNELL	ILAEANGFIKKSGAWFSYD 310	
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NTDB id 365071 FFT47 RS05755 WP 002914769.1	SVRLDIRRIGA....V.KEGDNV	VGSETRVKVVKNKIAAPFKQAEFQ	ILYEGEGINFYGELVD	LGVKEKLIIEKAGAWYSYN 295	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPFKEANTQ	IMYGGGFNRREGELID	LGVKHKMVEKSGAWYSYN 293	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFR	EAEFQILYGKGVNQLGELVD	LAVQQNIVQKAGAWYSYK 293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETRKVVKNKMAPPFKEAEFQ	ILYGKGTNQLGELVD	LAVQQDIVQKAGAWYSYQ 293	
consensus	*!!**!* *	* ** *****!!*!!*!!* *	*****!!*!!* ***** *	***** !! *****!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	IDGEEAAE....SK	KDE....VAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....SK	KDE....AAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLDN	GIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSS	KEK.....ETDEK	.ADKNLVLELDD	TIELE	382
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NTDB id 1245 Cj1673c YP 002345041.1	DK	KLGGGREN	SKAFLKENPEIA	DEITKAIQNSMG	IEGMISGSEDDE	.GE.E.....		343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DK	KLGGGREN	AKALLKEDKAL	ADEITLKIKESIG	SNEEIMPLPDEP	.LE.EME.....		347
NTDB id 1211 C694 RS00795 WP 000963128.1	DK	KLGGGREN	AKALLKEDKAL	ADEITLKIKESIG	SNEEIMPLPDEP	.LE.EME.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DT	KLGGGRD	TVKELIKDNPELA	ELEAKIREKLQAK				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GT	KIGQGK	NNAVKWLKENPEI	ADKLEQEIRNTL	ASNPNSVLKATAS	.D...SNDES	DVEEFSEEE..L.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGK	DNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	.TD.....GERPEE			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGK	DNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	.TD.....GERPEE			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGK	DNVRVWLKENPEI	SDEIDAKIRALNG	VEMHITEGTQDE	.TD.....GERPEE			348
NTDB id 1427 RS RS02760 WP 011000510.1	GE	RIGQGRD	NCREFLRENAEL	AREIENKVVREHL	GVTPMGAVTLAEE	.VE.ED.....		352
NTDB id 365071 FFT47 RS05755 WP 002914769.1	GD	KIGQGGKAN	AITWLKENPAAAK	EIEKKVRELLLNQ	DAKPD..FV..VD	.GNDAEETE	QDF.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GD	KIGQGGKAN	ACKYLLKENPEI	AKTLDKKLREML	LNPNENMQLI..AE	TSSA	ADDVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GD	KIGQGGKAN	ACKYLLKENPEI	AKTLDKKLREML	LNPNENMQLI..AE	TSSA	ADDVEFGAVPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGG	KANAAYLEENPEI	GQIEEQIRAKLL	VSANTKA..TP..VA	.EDLADADI.....			347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GN	KIGQGGK	NNVIRYLEENPQ	ISTEIEAVIREQL	LLTKASDQTA..A...	HD.ETEEEP	DLLES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GN	KIGQGGK	NNVIRYFEENN	QIAEEIERNIREQL	LLTTGTNGAV..Q...	I..EDEEEP	DLLES.....	349
consensus		***!!!*****	**	*****	*****	**	*	

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		IEE	
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 527 SMSK321 RS11065 WP 001085454.1	IEE		384
NTDB id 499 SM12261 RS08315 WP 078228268.1	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
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NTDB id 1313 DR RS12030 WP 010888966.1	...		363
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	...		347
NTDB id 1211 C694 RS00795 WP 000963128.1	...		347
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NTDB id 1123 OK783 RS03845 WP 003688695.1	...		348
NTDB id 1427 RS RS02760 WP 011000510.1	...		352
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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			

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