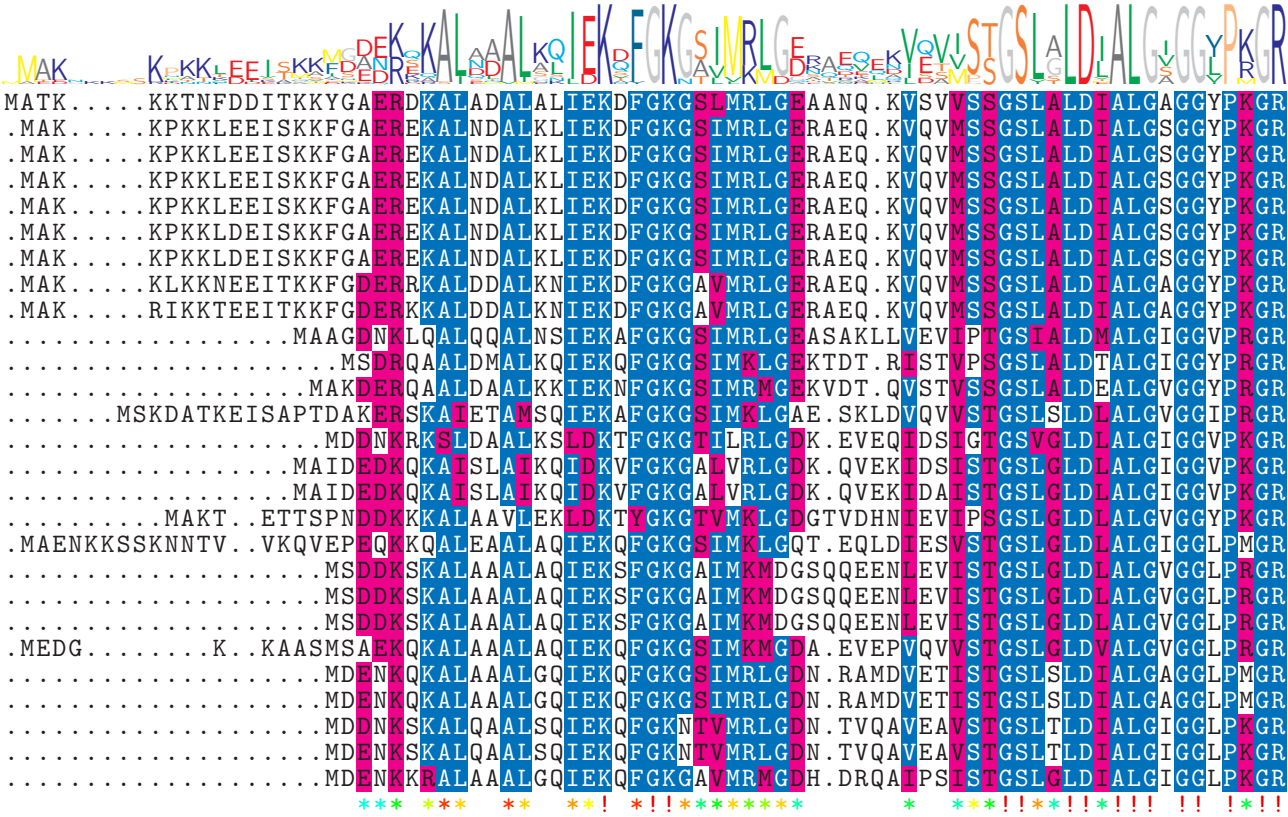


logo

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 24288 HM1 RS10875 WP 012283424.1
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
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



74
73
73
73
73
73
73
73
73
73
62
58
60
72
59
61
61
68
76
60
60
60
68
59
59
59
59
59

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKNKVAPPF	KVALV	DIMF	GEGIS	STGEL	INTAVE	EETIKK	SGAW	FAYN	312							
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311							
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TQTQIKGTG	.DQKDS	IGKETK	IKVVKNKVAPPF	KVAEV	EIMY	GEGISRT	GELVK	IASDL	DIQK	KAGAW	FSYN	311							
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKVAPPF	KEAFV	EIIY	GEGISRT	GELVK	IASDL	GIIQ	KAGAW	YSYN	311							
NTDB id 24288 HM1 RS10875 WP 012283424.1	SVRLEVRK	VDTLTKQS	DM	IGSRTR	VVKNKVAPPF	KVADF	DIMY	GEGIS	REGSLV	DLAV	DMGIV	EKSGAW	YSYK	296							
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRA	EQLKQGN	DV	MGNKTK	IKVVKNKVAPPF	RTAEV	DIMY	GEGIS	KEGEI	IDL	GT	ELDIV	QKSG	SWYSY	292						
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	ETIKNGT	DM	IGNRARI	IKVVKNKVAPPF	KVAEV	DIMY	GQGISRT	GELVD	MAVEK	DIINK	SG	SWYSY	294							
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRK	IGQ....PTK	VGNDA	VANTVK	KIKTVKNKVA	APFKE	VELA	L	VY	GKGF	DQLSD	LV	G	LAADMDI	IKKAGSFYSY	307					
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....L	KQNEEP	IGNRVK	VVKNKVAPPF	RQAEF	D	VMF	GEG	LS	REGE	LID	YG	VKLDIV	DKSGAW	FSYK	294				
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIR	RIAS....L	KQNEQH	IGNRAK	AKVVKNKVAPPF	REAEF	DIMF	GEGIS	KEGEI	IDY	GV	KLDIV	DK	SGAW	LSYQ	296					
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIR	RIAA....L	KQNEQH	IGNRAK	AKVVKNKVAPPF	REAEF	DIMF	GEGIS	KEGEI	IDY	GV	KLDIV	DK	SGAW	LSYQ	296					
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIR	RSLS	DTGKIKDKS	GEV	IGNRTK	VVKNKVAPPF	KS	AEF	DIMY	GEGV	SKVGE	ILD	VAT	DL	DIQKSG	SWFSYQ	307				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRR	CGV....V	KDGD	DEI	IGSE	TKV	VVKNKVAPPF	REVQ	FD	DIMY	GEGIS	RMNELL	ILAE	ANG	F	IKKSGAW	FSYD	310			
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I	KKGE	EEV	LGNE	TRV	KV	IK	NKVAPPF	RQAEF	DILY	GEGIS	WEGEL	ID	IG	VKNDI	INKSGAW	YSYN	294		
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I	KKGE	EEV	LGNE	TRV	KV	IK	NKVAPPF	RQAEF	DILY	GEGIS	WEGEL	ID	IG	VKNDI	INKSGAW	YSYN	294		
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR	TGS....I	KKGE	EEV	LGNE	TRV	KV	IK	NKVAPPF	RQAEF	DILY	GEGIS	WEGEL	ID	IG	VKNDI	INKSGAW	YSYN	294		
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRR	IGS....I	KKGDEV	VGN	ETK	V	VVKNKVAPPF	REAI	F	DILY	GAGV	SREGE	IIDL	LG	VEAK	VVEK	SGAW	YSYN	302		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRR	TGA....I	KEGE	EEV	VGN	ETRI	KVVKNK	IAAP	FKE	ANTQ	IMYG	QGF	N	REGEL	ID	LG	VKHKM	VVEK	SGAW	YSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRR	TGA....I	KEGE	EEV	VGN	ETRI	KVVKNK	IAAP	FKE	ANTQ	IMYG	QGF	N	REGEL	ID	LG	VKHKM	VVEK	SGAW	YSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRR	IGQ....V	KEGDEI	IGSE	TKV	VVKNK	MAPPF	REAI	F	ILY	GKGV	NQL	GEL	VD	LA	VQ	Q	DIV	QKAGAW	YSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR	IGQ....V	KEGDEI	IGSE	TKV	VVKNK	MAPPF	KEAI	FQ	ILY	GKGT	NQL	GEL	VD	LA	VQ	Q	DIV	QKAGAW	YSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRR	TGA....V	KEGDEV	VGS	ETR	V	VVKNKVAPPF	RQAEF	Q	ILY	GKGI	YRN	GEI	ID	LG	VQ	QGL	LVEK	SGAW	YAYK	293
consensus	*!!***!* * ** *****!*****!!*!!*!!* * *****!*!*** ***** ** *** ! !*****!																				

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHGL	LDDSEVAETEEETT	...	ASKTKAKAKKKEEKAVETEEIELELED	387					
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENK	...	KDE...PKKEEA..VNEEVPLDLGDE	381					
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENK	...	KDE...PKKEEA..VNEEVPLDLGDE	381					
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENK	...	KDE...PKKEEA..VNEEVPLDLGDE	381					
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENK	...	KDE...PKKEEA..VNEEVPLDLGDE	381					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEVFAE	IDHQVRVQFGL	LIDGEEAAE	...	SK...KDE...VAQVDS..VNEEVTLDLGDE	377					
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE	...	SK...KDE...AAQVDS..VNEEVTLDLGDE	377					
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVAS	...	E.....E.....TDDLALDLNG	373					
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKE	...	K.....ETDEK..ADKNLVLELDDT	378					
NTDB id 24288 HM1 RS10875 WP 012283424.1	GDRLGQGR	ENVKEFLRNHPALAAE	IESMIRGRTESARL	AAAAAPAAGDG	...	E.....	346					
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKDIMLM	IQEQIREHYGL	DNNGVVQQAEETQ	...	EEL.EFE.E.....	348					
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTEDE	...	QI.NILPD.....DS	352					
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGG	KEKTIAYIAERP	EMEQEIRDRVMAA	IRAGNAGEAPALAP	AAPAAPEAAEA	.....	363					
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGR	ENSKAFLENPEIA	DEITKAIQNSMG	IEGMI	...	SGSEDD..EGEE.....	343					
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIG	SNEEI	...	MPLPDE..PLEEME.....	347					
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIG	SNEEI	...	MPLPDE..PLEEME.....	347					
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTVKEIKDNPEL	AEELEAKIREKLQAK	.....	.....	.....	343					
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NVAVKWLKENPEIA	DKLEQEIRNTLAS	PNPNS	...	VLKATASDSNDESDV	EEFS.....EEEL.....	372				
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI	...	TEGTQDET	DGER.....P.....EE.....	348				
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI	...	TEGTQDET	DGER.....P.....EE.....	348				
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI	...	TEGTQDET	DGER.....P.....EE.....	348				
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVREHLG	VTPMG	...	AVTLA.EEVEED		352				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGN	KANACKYLLKENPEIA	KTLDKKLREMLLN	PNENM	...	QLIAETSSAAD	DVEFGAVP.....EEF.....	354				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGN	KANACKYLLKENPEIA	KTLDKKLREMLLN	PNENM	...	QLIAETSSAAD	DVEFGAVP.....EEF.....	354				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGN	NVIRYLEENPQIST	EIEAVIREQLLT	TKASD	...	QTAA.HDETEEE	PDLL..E.....S.....	349				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGN	NVIRYFEENNQIAE	EIEARNIREQLLT	TGTN	...	GAVQ.I.EDEE	PDLL..L.....ES.....	349				
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGN	KANAACKYLEENPEI	GQIEIEQQIRAKLL	VTSAN	...	TKATPVAEDLADADI		347				
consensus	***!!!	*****	**	*	***	*****	**	*	*	*	*	*

logo

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 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 24288 HM1 RS10875 WP 012283424.1	.....	346
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	TEE....	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