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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.A.NQKVSIVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 334012 EPT60 RS06300 WP 003641504.1	.....MADARKAALDTALKKIEKNFGKGAIMRMGDA.AQTTTISTISSGSLALDDALGVGGYPKGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQLIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVSTGSLGLDVALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
consensus	*** ** * **! *!***** * ****!*!!*!!*!!*!!*!!*!!	





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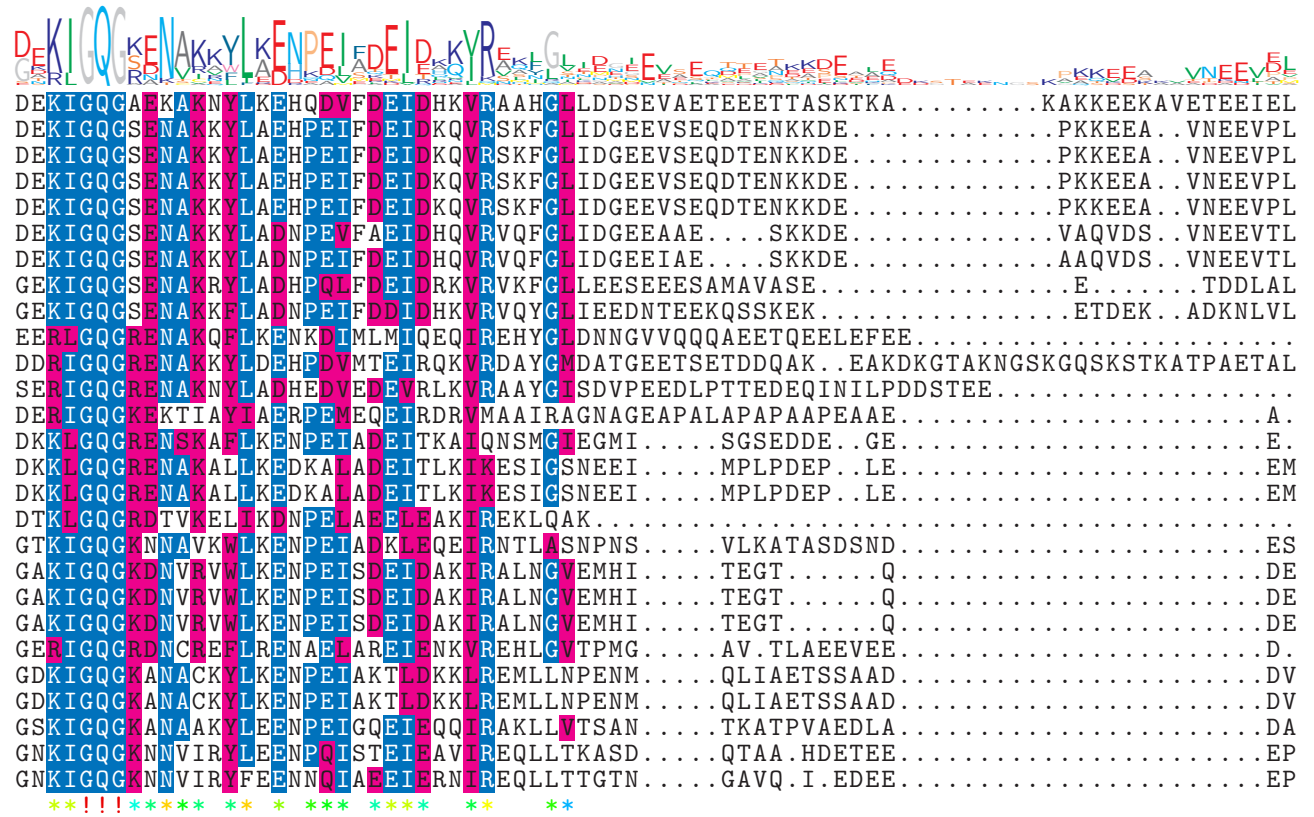
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NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVVKNKV	APPFK	EAFVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVVKNKV	APPFK	EAFVE	IMY	GEGIS	KTGEL	LKIASDL	DI	KKAGAW	YSYK	311					
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGK	ETK	IKVVKNKV	APPFK	VAEVE	IMY	GEGIS	RTEG	LVKIASDL	DI	QKAGAW	FSYN	311					
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGK	ETK	IKVVKNKV	APPFK	EAFVE	IIY	GEGIS	RTEG	LVKIASDL	GI	QKAGAW	YSYN	311					
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVR	RAEQLKQGN	....DV	MGN	TKK	IKVVKNKV	APPFR	TAEVD	IMY	GEGIS	KEGE	ITDLG	TEL	DIV	QKSG	SWYSYE	292				
NTDB id 334012	EPT60	RS06300	WP 003641504.1	TIRLEVR	RAEIQIKGT	....NI	IGN	RVR	IKVVKNKV	APPFK	KRAEVD	IMY	GQGIS	QTGE	IVDMA	AEKD	IV	KKSG	SWYSYG	293				
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVR	RAETIKNGT	....DM	IGN	RAR	IKVVKNKV	APPFK	VAEVD	IMY	GQGIS	RTEG	LVDM	AVEKD	IT	NKSG	SWYSYG	294				
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVR	KIGQ....	PTKVG	NDA	VANTV	KIK	TVKNKVA	APFKE	VELAL	VY	GKGF	DLSD	LV	GLA	ADMD	IV	KKAG	SFYSYG	307		
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVR	KVAT....	L.KQN	EEL	IGN	RVK	IKVVKNKV	APPFR	QAEF	DVM	FGEGL	SREG	ELID	YGV	KLD	IV	DKSG	AWFSYK	294		
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIR	RIAS....	L.KQN	EQH	IGN	RAK	IKVVKNKV	APPFR	EAEFD	IMF	GEGIS	KEGE	ITDY	GV	KLD	IV	DKSG	AWLSYQ	296		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIR	RIAA....	L.KQN	EQH	IGN	RAK	IKVVKNKV	APPFR	EAEFD	IMF	GEGIS	KEGE	ITDY	GV	KLD	IV	DKSG	AWLSYQ	296		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIR	RSLS	DTGKIK	DKS	GEV	IGN	RTK	IKVVKNKV	APPFK	SAEFD	IMY	GEGV	SKV	GEIL	DV	ATDL	DI	QKSG	SWFSYQ	307	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIR	RCGV....	V.KDG	DEI	IG	SETK	IKVVKNKV	APPFR	EVQFD	IMY	GEGIS	RMNELL	ILAE	ANGF	IT	KKSG	AWFSYD	310			
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	LG	NETR	VKVI	KNKV	APPFR	QAEFD	DILY	GEGIS	WEGEL	ID	IG	VKND	IT	NKSG	AWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	LG	NETR	VKVI	KNKV	APPFR	QAEFD	DILY	GEGIS	WEGEL	ID	IG	VKND	IT	NKSG	AWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	LG	NETR	VKVI	KNKV	APPFR	QAEFD	DILY	GEGIS	WEGEL	ID	IG	VKND	IT	NKSG	AWYSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIR	RIGS....	I.KKG	DEV	VG	NETK	IKVVKNKV	APPFR	EAF	IFD	DILY	GAGV	SREGE	ITDL	G	VEAK	VVE	EKSG	AWYSYN	302	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEV	VG	NETR	IKVVKNK	IAAPF	KEANT	QIMY	GQGF	NREG	ELIDL	G	VKHK	MVE	EKSG	AWYSYN	293		
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEV	VG	NETR	IKVVKNK	IAAPF	KEANT	QIMY	GQGF	NREG	ELIDL	G	VKHK	MVE	EKSG	AWYSYN	293		
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIR	RTGA....	V.KEG	DEV	VG	SETR	IKVVKNKV	APPFR	QAEF	QILY	GKGI	YRN	GEIT	IDL	G	VQGL	V	EKSG	AWYAYK	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIR	RIGQ....	V.KEG	DEI	IG	SETK	IKVVKNK	MAPPF	FRE	AIFQ	I	LYGK	GVN	QLG	ELVD	LAV	QQN	IV	QKAG	AWYSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIR	RIGQ....	V.KEG	DEI	VG	SETK	IKVVKNK	MAPPF	KEA	IFQ	I	LYGK	GTN	QLG	ELVD	LAV	QQD	IV	QKAG	AWYSYQ	293

consensus

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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 115 BSU 16940 NP 389576.2  
 NTDB id 334012 EPT60 RS06300 WP 003641504.1  
 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 1205 PSJM300 05545 AFN77183.1  
 NTDB id 1022 ACIAD RS06390 WP 004925639.1  
 NTDB id 1074 ABD1 RS10195 WP 000344167.1  
 consensus



logo

NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	ELED.....	387
269	KZH43 RS08665 WP 001085462.1	DLGDELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DLGDELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DLGDELEIEIEE	388
159	SP RS09750 WP 001085462.1	DLGDELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DLGDELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DLGDELEIEIEE	384
453	Spy49 1753c ACI62003.1	DLDNIEIED..	378
408	SMU RS09530 WP 002262392.1	ELDDTIELED..	383
115	BSU 16940 NP 389576.2	.....	348
334012	EPT60 RS06300 WP 003641504.1	DLGDQPTEK...	380
625	LCA RS02525 WP 011374196.1	.....	355
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	E.....	347
1214	NCTC11637 00359 SQJ03206.1	E.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	DVEEFSEEEL..	372
1130	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1124	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1123	OK783 RS03845 WP 003688695.1	TDGERPEE....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EFGAVPEEF...	354
1142	GTF74 RS11550 WP 000344154.1	EFGAVPEEF...	354
1205	PSJM300 05545 AFN77183.1	DI.....	347
1022	ACIAD RS06390 WP 004925639.1	DLL..ES.....	349
1074	ABD1 RS10195 WP 000344167.1	DLL..LES.....	349

consensus

DLGDLEIEE  
ELEDLEIEE

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