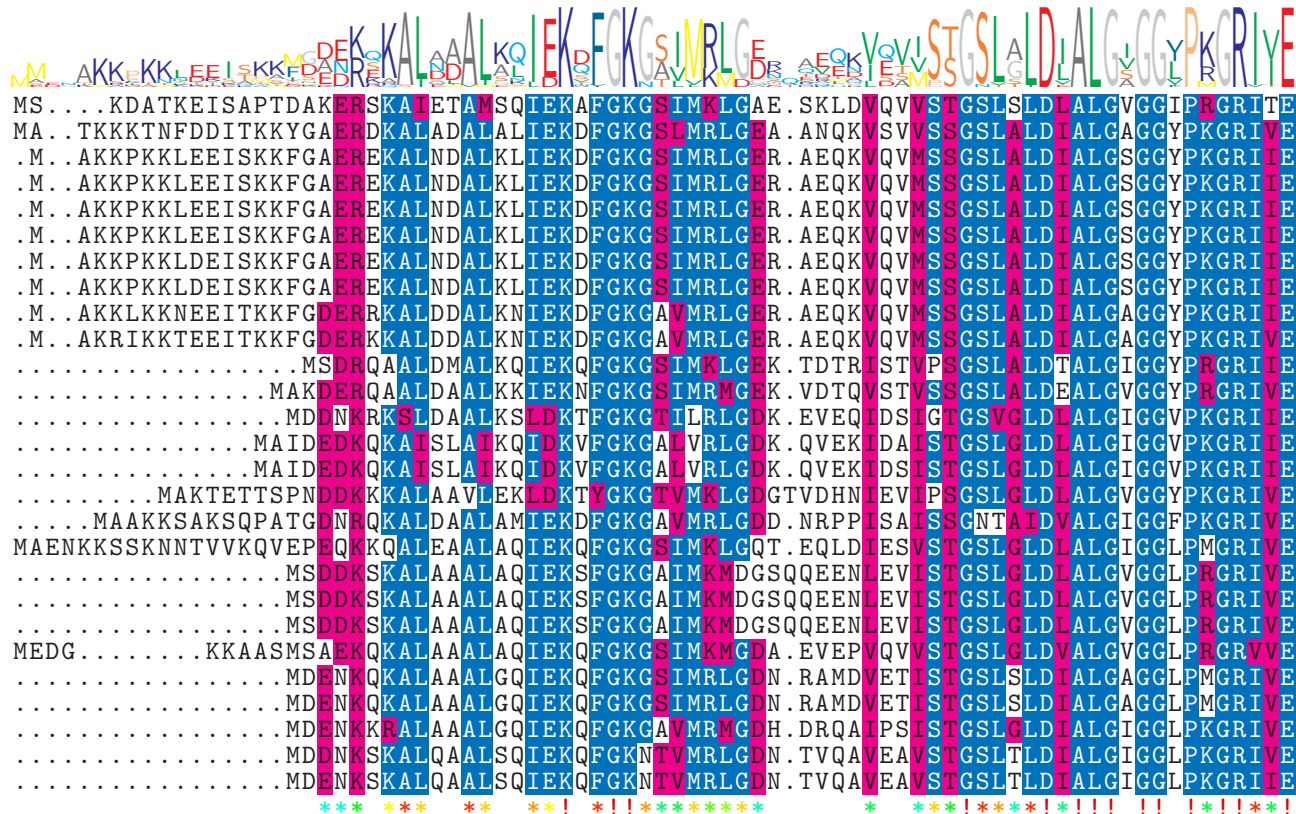


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NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 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 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 142071 CUL131002 RS06585 WP 023635867.1
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

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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTT	LALAI	V	AQAQK	AGGTC	AFIDA	AEHALD	PV	YARA	LGVNT	DELL	V	SQPD	N	GEQALEI	M	ELL	V	RSGA	I	D	VVVV	155																											
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTT	VALH	A	VAAV	QKEGG	IAAF	IDAEN	ALD	PEYAK	LGVN	IDELL	S	QPDY	GEQ	GLQ	IAE	KL	I	T	S	G	A	V	D	L	V	V	I	157																					
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTT	VALH	A	VAAQ	QKEGG	IAAF	IDA	EAHALD	PAYAAA	LGVN	IDELL	L	A	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156															
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTT	VALH	A	VAAQ	KD	GGIA	AFIDA	EAHALD	PAYAAA	LGVN	IDELL	S	QPD	S	GEQ	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	V	V	156																
NTDB id 115 BSU 16940 NP 389576.2	YIGPESGGKTT	VALH	A	IAEV	QQQ	GGIA	AFIDA	EAHALD	PV	YAK	LGVN	I	E	LL	S	QPD	T	GEQ	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	L	V	V	141													
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTT	VALH	A	IAEV	QKQ	GGTAA	YIDA	ENAM	D	PKYATA	LGVN	I	D	LL	S	QPD	T	GEQ	G	L	E	I	A	D	A	L	V	S	S	G	A	V	D	L	V	V	143													
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTT	L	L	H	I	A	E	C	Q	K	A	G	G	V	C	AFIDA	EAHALD	V	K	YAKN	LGVN	T	D	L	V	S	QPD	F	GEQ	A	L	E	I	V	E	T	I	A	R	S	G	A	V	D	L	I	V	142		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTT	L	S	L	H	I	A	E	C	Q	K	N	G	G	V	C	AFIDA	EAHALD	V	H	YAKR	LGVN	T	E	N	L	L	S	QPD	T	GEQ	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	V	V	144
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTT	L	S	L	H	I	A	E	C	Q	K	N	G	G	V	C	AFIDA	EAHALD	V	H	YAKR	LGVN	T	E	N	L	L	S	QPD	T	GEQ	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	V	V	144
NTDB id 1334 RAO RS04870 WP 004918236.1	IYGPESGGKTT	L	L	H	A	I	A	E	A	K	V	G	G	T	A	AFIDA	EAHA	F	D	M	YAEK	L	G	I	N	L	E	L	I	V	S	QPD	N	GEQ	A	L	E	I	A	D	S	L	I	R	S	G	C	V	D	

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NTDB id 1313	DR RS12030 WP 010888966.1	LDVRKIGQ...PTKVGND	AVNTV	KIKTVKNKVA	APFKEVELA	LVY	GKGFQDLS	DLVGL	ADMDI	IKKAG	SFYSY	GDER	310				
NTDB id 600	KW2 RS01765 WP 011675413.1	LDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIKVVKNKV	APPFKVAL	VDIM	FEGGISST	GEL	LNIAVEEG	IIKKSG	AWFAYNDEK	315			
NTDB id 269	KZH43 RS08665 WP 001085462.1	LDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	VVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 228	SPD RS09265 WP 001085462.1	LDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	VVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 194	SPR RS08825 WP 001085462.1	LDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	VVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 159	SP RS09750 WP 001085462.1	LDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	VVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 499	SM12261 RS08315 WP 078228268.1	LDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 527	SMSK321 RS11065 WP 001085454.1	LDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVEIMY	GEGIS	KTGEL	LKIASD	LDIIKKAG	AWYSYKDEK	314		
NTDB id 453	Spy49 1753c ACI62003.1	LDVRG	TTQIKGTG	.DQKDSS	IGKETK	IKVVKNKV	APPFK	VA	EVEIMY	GEGIS	RTGEL	VKIASD	LDIIKKAG	AWFSYNGEK	314		
NTDB id 408	SMU RS09530 WP 002262392.1	LDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKV	APPFK	EA	FVEIMY	GEGIS	RTGEL	VKIASD	LDIIKKAG	AWFSYNGEK	314		
NTDB id 115	BSU 16940 NP 389576.2	LEV	RRAEQLKQGN		DVMGNK	TKIKVVKNKV	APPFRT	AE	VDIMY	GEGIS	KEGEI	IDL	LGTEL	DIIVQK	SGSWSYSEER	295	
NTDB id 625	LCA RS02525 WP 011374196.1	LEV	RAETIKNGT		DMIGNR	ARIKVVKNKV	APPFK	VA	EVDIMY	G	GISRTGEL	VDMAVEK	DIINKSG	SWSYG	SER	297	
NTDB id 1245	Cj1673c YP 002345041.1	LDVRK	VAT....	L.KQNEEP	IGNRV	KVKVVKNKV	APPFR	QAE	FDDIMY	FEGEL	SREGEL	IDYGVKL	DIIVDK	SGAWFSYKDKK	297		
NTDB id 1214	NCTC11637 00359 SQJ03206.1	IDIR	RIAA....	L.KQNEQH	IGNRA	KA	KVVKNKV	APPFR	EA	FDDIMY	FEGIS	KEGEI	IDYGVKL	DIIVDK	SGAWLSYQDKK	299	
NTDB id 1211	C694 RS00795 WP 000963128.1	IDIR	RIAS....	L.KQNEQH	IGNRA	KA	KVVKNKV	APPFR	EA	FDDIMY	FEGIS	KEGEI	IDYGVKL	DIIVDK	SGAWLSYQDKK	299	
NTDB id 1334	RAOC RS04870 WP 004918236.1	IDIR	RLS	DTGKIKDKS	GEVIGNR	TKVKVVKNKV	APPFSA	EAFDDIMY	GEGVSKV	GEILD	VATD	LDIIQK	SGSWFSYQD	TKT	310		
NTDB id 142071	CUL131002 RS06585 WP 023635867.1	CDV	RIQT....	L.KDGQDA	IGNR	TRLKVVKNKV	SPPF	KIA	EAFDDIMY	GEGIS	RESS	IDL	LGVDNG	IIKKSG	SWFTYDGDQ	308	
NTDB id 1389	A4U84 RS07560 WP 021112712.1	LDIR	RCGV....	V.KDGEI	IGSETK	VKVVKNKV	APPFR	EV	QFDDIMY	GEGIS	RMNEL	LILAEANG	FIIKKSG	AWFSYDGT	K	313	
NTDB id 1130	NGFG RS03960 WP 003688695.1	LDIR	RTGS....	I.KKGEEV	LGNETR	VKV	IKNKV	APPFR	QAE	FDDILY	GEGIS	WE	GELID	IGVKN	DIINKSG	AWYSYNGAK	297
NTDB id 1124	NGFG RS03960 WP 003688695.1	LDIR	RTGS....	I.KKGEEV	LGNETR	VKV	IKNKV	APPFR	QAE	FDDILY	GEGIS	WE	GELID	IGVKN	DIINKSG	AWYSYNGAK	297
NTDB id 1123	OK783 RS03845 WP 003688695.1	LDIR	RTGS....	I.KKGEEV	LGNETR	VKV	IKNKV	APPFR	QAE	FDDILY	GEGIS	WE	GELID	IGVKN	DIINKSG	AWYSYNGAK	297
NTDB id 1427	RS RS02760 WP 011000510.1	LDIR	RI	GS....	I.KKGDEV	VGNETR	VKVVKNKV	APPFR	EA	IFDDILY	GAGV	SREGEI	IDL	GV	EAKVVEK	SGAWYSYNGER	305
NTDB id 1165	A1552VC RS01565 WP 000344154.1	LDIR	RTGA....	I.KEGEEV	VGNETR	IKVVKNK	IA	APFKE	ANTQIMY	G	GFNREGEL	ID	LG	VHKHMVEK	SGAWYSYNGDK	296	
NTDB id 1142	GTF74 RS11550 WP 000344154.1	LDIR	RTGA....	I.KEGEEV	VGNETR	IKVVKNK	IA	APFKE	ANTQIMY	G	GFNREGEL	ID	LG	VHKHMVEK	SGAWYSYNGDK	296	
NTDB id 1205	PSJM300 05545 AFN77183.1	LDIR	RTGA....	V.KEGDEV	VGSETR	VKVVKNKV	APPFR	QAE	FIQLY	GKGI	YNGEI	IDL	GV	QQLVEK	SGAWAYKGS	K	296
NTDB id 1022	ACIAD RS06390 WP 004925639.1	LDIR															

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAIYIAERPEMEQETRDYVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVDFDEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSSENACKKYLAHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSSENACKKYLAHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSSENACKKYLAHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSSENACKKYLAHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSSENACKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSSENACKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSSENACKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSSENACKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 115 BSU 16940 NP 389576.2	LGQGGRENACKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAAETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGGRENACKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGGRENSKAFLENPEIADEITKATQNSMGIEGMISGSE.....DDEGEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENACKALLKEDKALADEITLKIKESIGSNEEIMPLP.....DEPLEE.....ME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGGRENACKALLKEDKALADEITLKIKESIGSNEEIMPLP.....DEPLEE.....ME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDVTVELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 142071 CUL131002 RS06585 WP 023635867.1	LGQGGKEKVRLLYLKQTPELADEIEEKIFRALQIKGYANQN DAL...TDDPVDM.....VPNIDFDDDEDNG.....	369
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES DVEE.....FSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGE.....RPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGE.....RPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGE.....RPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGGDNCREFLRENAELAREIENKVRHLGVTPMGAV.TLAAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENMQLIAETSSAAD DVEFGA.....VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENMQLIAETSSAAD DVEFGA.....VPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAKYLEENPEIGQETEQEIRAKLLVTSANTKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEPDLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYLEENPQIAEIERNIIREQLLTGTNGAVQ.I.EDEEEPDLL.....LES.....	349
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- X non conserved
- X similar
- X > 50% conserved