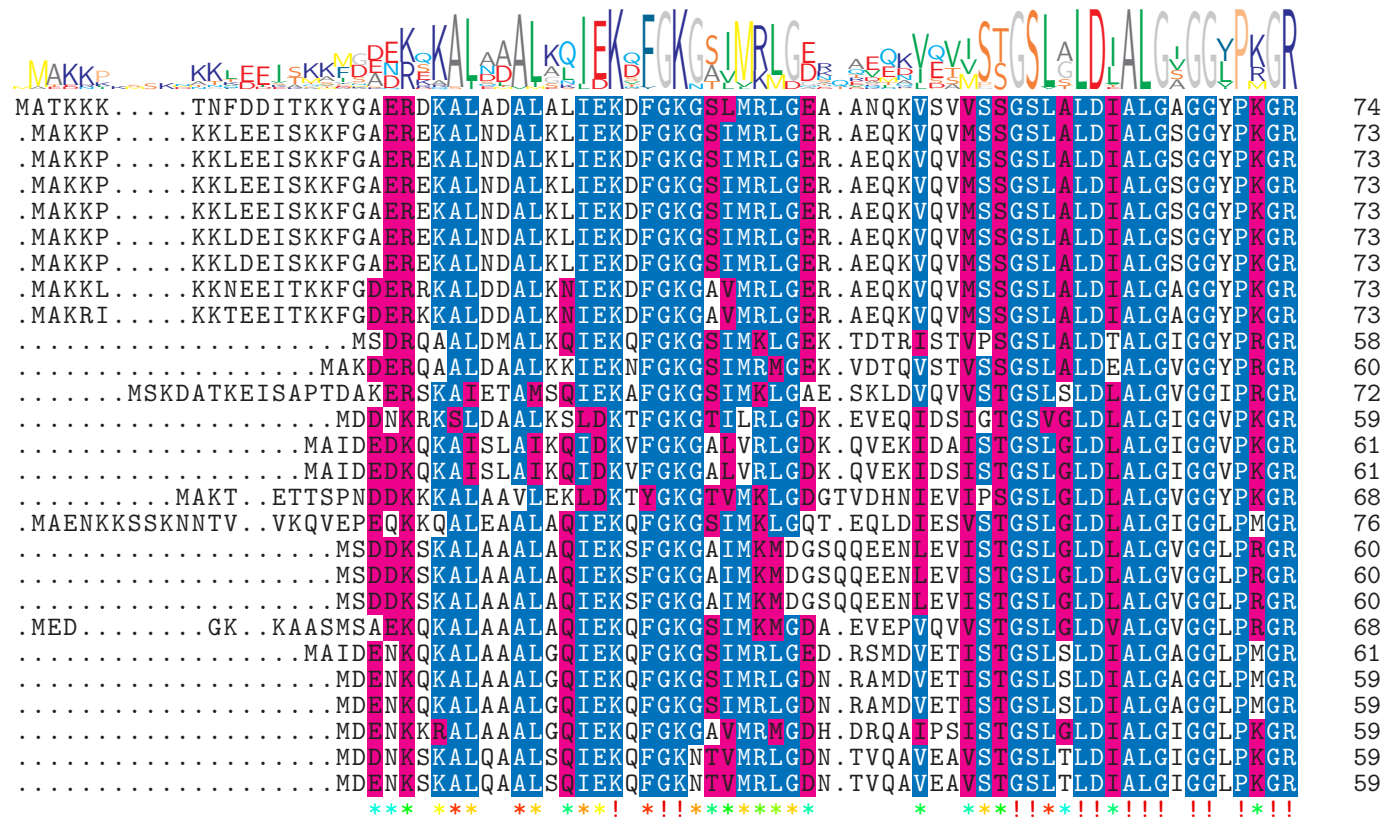


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 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
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NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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logo

NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIKVV	KNKVAPPF	KVALV	DIMF	GEGIS	STGEL	INIAVE	EETII	KKSG	AWFAY	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNKVAPPF	KEAVVE	IMYG	GEGIS	KTGEL	LKIAS	DLDI	KKK	AGAW	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNKVAPPF	KEAVVE	IMYG	GEGIS	KTGEL	LKIAS	DLDI	KKK	AGAW	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNKVAPPF	KEAVVE	IMYG	GEGIS	KTGEL	LKIAS	DLDI	KKK	AGAW	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNKVAPPF	KEAVVE	IMYG	GEGIS	KTGEL	LKIAS	DLDI	KKK	AGAW	311
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVV	KNKVAPPF	KEAFVE	IMYG	GEGIS	KTGEL	LKIAS	DLDI	KKK	AGAW	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGKETK	IKVV	KNKVAPPF	KVAEVE	IMYG	GEGIS	RTGEL	VKIAS	DLDI	IKK	AGAW	311
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NTDB id 115 BSU 16940 NP 389576.2	SVRLEVR	RAEQLKQGN		DVMGN	KTIK	IKVV	KNKVAPPF	RTA	AEVD	IMYG	GEGIS	KEGE	IIDL	GTGEL	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVR	RAETIKNGT		DMIGN	RARI	IKVV	KNKVAPPF	KVAEVD	IMYG	GGIS	RTGEL	VDMA	VEKDI	INKSG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVR	KIGQ....	PTKVG	NDAV	ANTV	KIK	TVKN	KVA	APFKE	VELA	L	VYGK	GFDQL	SDLV	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVR	KVAT....	L.KQNE	EEPIG	NRV	KV	IKVV	KNKVAPPF	RQAEF	DVMF	GEG	LSR	EGEL	IDYGV	294
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRLDIR	RIIAA....	L.KQNE	EQHIGN	RAKA	IKVV	KNKVAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GVKLD	IVDK	296
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRLDIR	RIAS....	L.KQNE	EQHIGN	RAKA	IKVV	KNKVAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GVKLD	IVDK	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRLDIR	RSLSDTG	KIKDKS	GEVIGN	RTKV	IKVV	KNKVAPPF	KS	AEFD	IMYG	GEGV	SKVGE	ILDV	ATDL	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIR	RCGV....	V.KDG	DEIIG	SETK	V	IKVV	KNKVAPPF	REVQ	F	DIMYG	GEGIS	RMNELL	ILAE	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEVLGN	ETRV	KV	IKNV	VAPPFR	QAEF	D	ILYG	GEGIS	WE	GELID	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEVLGN	ETRV	KV	IKNV	VAPPFR	QAEF	D	ILYG	GEGIS	WE	GELID	294
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NTDB id 375139 FPL16 RS06805 WP 000963150.1	SVRLDIR	RIGA....	V.KEG	DNVVG	SETR	V	IKVV	KNKIA	APFKQ	AEFQ	ILYGE	G	INFY	GELVD	295
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEVLGN	ETRI	IKVV	KNKIA	APFKE	ANTQ	IMYG	GGFN	REGEL	IDL	GVKHK	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEVLGN	ETRI	IKVV	KNKIA	APFKE	ANTQ	IMYG	GGFN	REGEL	IDL	GVKHK	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIR	RTGA....	V.KEG	DEVVGN	SETR	V	IKVV	KNKVAPPF	RQAEF	Q	ILY	GKGI	YRN	GEIID	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIR	RIGQ....	V.KEG	DEIIG	SETK	V	IKVV	KNKM	APPF	REAI	FQ	ILY	GKGV	NQLG	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIR	RIGQ....	V.KEG	DEIIG	SETK	V	IKVV	KNKM	APPF	KEAI	FQ	ILY	GKGT	NQLG	293
consensus	*!!**!*~			*	**	*****!*	*****!*	*****!*	*	*****!*	*****	*****	*****	*****	*****!


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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 115 BSU 16940 NP 389576.2
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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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Sequence	Score
DEKIGQGAETKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED....	387
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DEKIGQGSENACKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSEQDNTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
DEKIGQGSENACKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSEQDNTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
DEKIGQGSENACKKYLAEHPEIFDEIDKQVRSKFGGLIDGEEVSEQDNTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
DEKIGQGSENACKKYLAENPEIFDEIDHQVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDLEIE	381
DEKIGQGSENACKKYLAENPEVFAEIDHQVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDLEIE	381
GEKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
GEKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
EERLGQGGRENAKQFLKENKDIMLMIQEQUIREHYGLDNGGVVQQAEETQEEL.EFE.E.....	348
SERIGQGGRENAKNYLADHEDVEDEVRLKVRAAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
DERIGGQKEKTIAIYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA...EA.....	363
DKKLGQGGRENSKAFLENPEIADEITKATQNSMGIEMG.....ISGSEDDG.....EE.....	343
DKKLGQGGRENAKALLKEDKALADEITLKIKESIGSNEE....IMPLPDEPL....EE..ME.....	347
DKKLGQGGRENAKALLKEDKALADEITLKIKESIGSNEE....IMPLPDEPL....EE..ME.....	347
DTKLGQGRDITVKELIKDNPELAEELEAKIREKLQAK.....	343
GTKIGQGKNNAVKWLKENPEIADKLEQIRNTLASNP.....SVLKATASDSN...DESDVEEFSEEL.....	372
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMH....ITEG.....T...QDETGDGERPEE.....	348
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMH....ITEG.....T...QDETGDGERPEE.....	348
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMH....ITEG.....T...QDETGDGERPEE.....	348
GERIGQGRDNCREFLRENAELAREIENKVRHGLVTPM....GAVTLAE.EVE...ED.....	352
GEKIGQKANATTWLKENPATAKIEKVRRELLSNQN....ATPDFAVD....DSEGVAETNEDF.....	353
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GDKIGGQKANACKYLKENPEIAKTLDDKKLREMLLNPN....MQLIAETSSAA..DDVEFGAVPEEF.....	354
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GNKIGGQKNNVIRIYFENNQIAEIEIRNIREQLLTGT....NGAVQ.I.EDE...EEPDLLES.....	349

logo

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
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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
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
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NTDB id 1124 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	...	348
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NTDB id 375139 FPL16 RS06805 WP 000963150.1	...	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
 similar
 ≥ 50% conserved