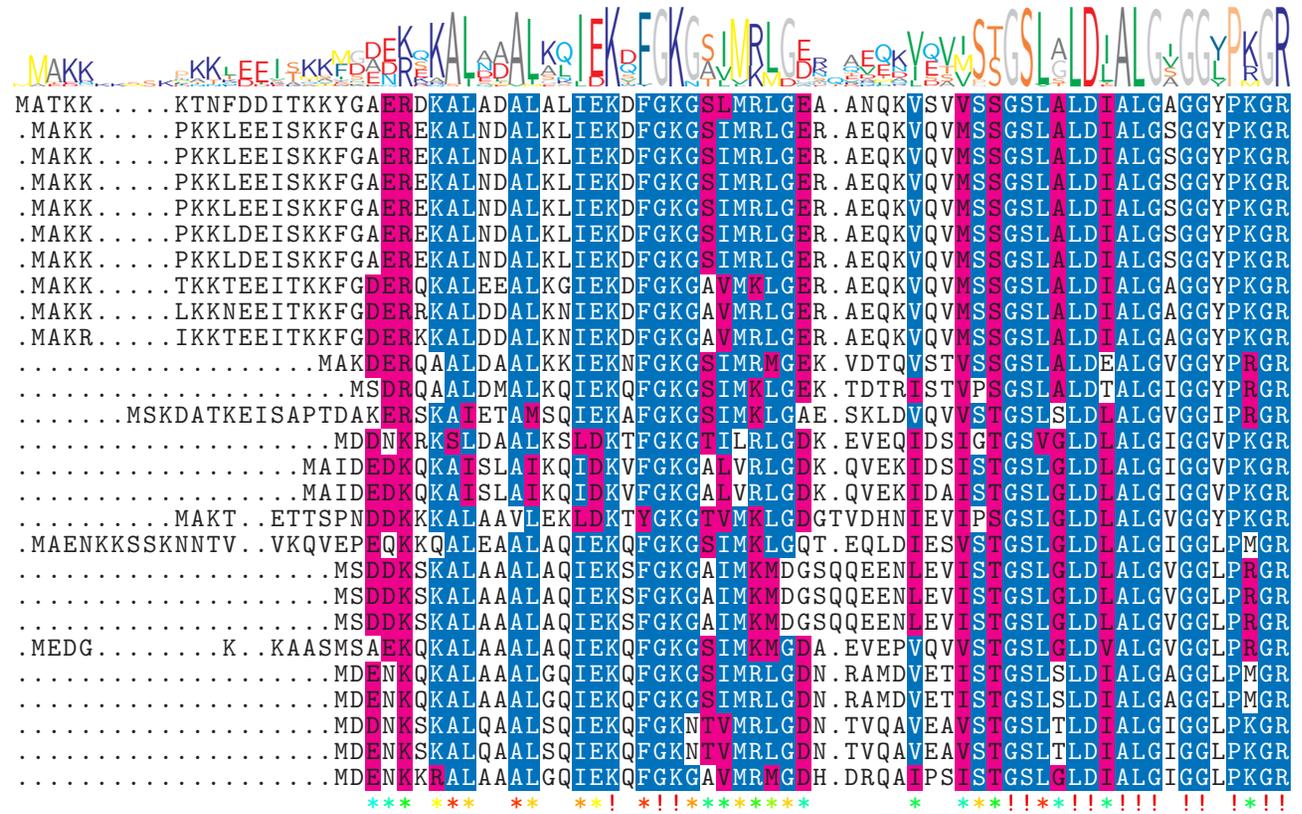


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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 0782228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 1030383 AB6M97 RS10650 WP 121836246.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 115 BSU 16940 NP 389576.2
 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



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NTDB id 600	KW2	RS01765	WP 011675413.1	DEKIGQGA	EKA	KNYL	KEHQ	DV	FDEID	HKV	RAAH	G	LLDD	SEVAETE	...	EETT	ASKT	.	KAKAK	KEEK	AVETE	EEIELE	386		
NTDB id 269	KZH43	RS08665	WP 001085462.1	DEKIGQGS	ENAK	KYLA	AHPEI	FDEID	KQV	RSKF	G	LIDG	EEV	SEQD	...	TENK	KD	...	EP	..	KKEE	AVNE	..	EVPLDLG	379
NTDB id 228	SPD	RS09265	WP 001085462.1	DEKIGQGS	ENAK	KYLA	AHPEI	FDEID	KQV	RSKF	G	LIDG	EEV	SEQD	...	TENK	KD	...	EP	..	KKEE	AVNE	..	EVPLDLG	379
NTDB id 194	SPR	RS08825	WP 001085462.1	DEKIGQGS	ENAK	KYLA	AHPEI	FDEID	KQV	RSKF	G	LIDG	EEV	SEQD	...	TENK	KD	...	EP	..	KKEE	AVNE	..	EVPLDLG	379
NTDB id 159	SP	RS09750	WP 001085462.1	DEKIGQGS	ENAK	KYLA	AHPEI	FDEID	KQV	RSKF	G	LIDG	EEV	SEQD	...	TENK	KD	...	EP	..	KKEE	AVNE	..	EVPLDLG	379
NTDB id 499	SM12261	RS08315	WP 078228268.1	DEKIGQGS	ENAK	KYLADN	PEI	FDEID	HQV	RVQF	G	LIDG	EEI	AES	...	KKD	...	EA	..	AQV	DSVNE	..	EVTLDLG	375	
NTDB id 527	SMSK321	RS11065	WP 001085454.1	DEKIGQGS	ENAK	KYLADN	PEV	FAEID	HQV	RVQF	G	LIDG	EEA	AES	...	KKD	...	EV	..	AQV	DSVNE	..	EVTLDLG	375	
NTDB id 1030383	AB6M97	RS10650	WP 121836246.1	DEKIGQGS	EKA	EYLK	EHPEV	FDEID	RKV	RLHY	G	LLEES	DEEK	AA	...	KATP	VV	...	EEV	TSA	PEID	TEDIA	IELELD	383	
NTDB id 453	Spy49	1753c	ACI62003.1	GEKIGQGS	ENAK	RYLADHP	QLF	FDEID	RKV	RVKF	G	LLEES	EEES	AM	...	AVAS	E	...	TD	..	DLAL	DL	371		
NTDB id 408	SMU	RS09530	WP 002262392.1	GEKIGQGS	ENAK	KFLADN	PEI	FDDI	DKV	RVQY	G	LIEED	NTE	EKQ	...	SSKE	KE	...	TD	...	EKAD	K	..	NLVLELD	376
NTDB id 625	LCA	RS02525	WP 011374196.1	SERIGQGR	ENAK	NYLADH	EDVE	DEV	RLK	VRAAY	G	ISDV	PEED	LPT	...	TEDE	.	QINIL	PDD	STEE	...	355			
NTDB id 115	BSU	16940	NP 389576.2	EERLGGGR	ENAK	QFLKEN	KD	I	MLMI	QE	IREHY	G	LDNN	GVV	QQA	...	EETQ	E	LEFE	..	...	348		
NTDB id 1313	DR	RS12030	WP 010888966.1	DERIGQG	KEK	TIAY	IAER	PEME	QEIR	DRV	MAA	IRAG	NAGE	APAL	APAPA	PEAAEA	...	363							
NTDB id 1245	Cj1673c	YP 002345041.1	DKKLGQGR	ENSKA	FLKEN	PEI	ADEI	TKAI	QNSM	G	IEGMI	...	SGSE	DD	..	EGEE	...	343							
NTDB id 1211	C694	RS00795	WP 000963128.1	DKKLGQGR	ENAK	ALLKED	KALADE	ITLK	IKESI	G	SNEEI	...	MPLP	DE	..	PLEE	ME	...	347						
NTDB id 1214	NCTC11637	00359	SQJ03206.1	DKKLGQGR	ENAK	ALLKED	KALADE	ITLK	IKESI	G	SNEEI	...	MPLP	DE	..	PLEE	ME	...	347						
NTDB id 1334	RAOC	RS04870	WP 004918236.1	DTKLGQGR	DTV	KEL	TKDN	PEL	AEL	EAK	IREKL	QAK	...	343											
NTDB id 1389	A4U84	RS07560	WP 021112712.1	GTKIGQG	KNN	AVK	WLKEN	PEI	ADK	LEQ	IRNT	L	ASN	PNS	...	VLK	ATAS	DS	SN	DE	SDV	EEF	...	SE	369
NTDB id 1130	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDN	VRV	WLKEN	PEI	SDEI	DAK	IRAL	NG	VEM	HI	...	TEGT	QDET	DGER	...	PE	347				
NTDB id 1124	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDN	VRV	WLKEN	PEI	SDEI	DAK	IRAL	NG	VEM	HI	...	TEGT	QDET	DGER	...	PE	347				
NTDB id 1123	OK783	RS03845	WP 003688695.1	GAKIGQG	KDN	VRV	WLKEN	PEI	SDEI	DAK	IRAL	NG	VEM	HI	...	TEGT	QDET	DGER	...	PE	347				
NTDB id 1427	RS	RS02760	WP 011000510.1	GERIGQGR	DNC	REFL	RENA	ELARE	IENK	VREHL	G	VTPM	G	...	AVTL	A	EEVE	ED	...	352					
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	GDKIGQG	KAN	ACKY	LKEN	PEI	AKT	L	DKKL	REML	LN	PEN	...	QLIA	ETSS	AAD	D	VEFG	AV	...	PE	352	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	GDKIGQG	KAN	ACKY	LKEN	PEI	AKT	L	DKKL	REML	LN	PEN	...	QLIA	ETSS	AAD	D	VEFG	AV	...	PE	352	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	GNKIGQG	KNN	VIRY	LEEN	P	QISTE	IEAV	IREQL	LT	KAS	D	...	QTA	A	HDE	TEE	PD	LL	...	ES	349	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	GNKIGQG	KNN	VIRY	FEEN	NQIA	EIE	ERN	IREQL	LT	TGT	N	...	GAV	Q	I	EDEE	PD	LL	...	LE	348	
NTDB id 1205	PSJM300	05545	AFN77183.1	GSKIGQG	KAN	AKY	LEEN	PEI	GQ	EIE	QQI	RAK	LL	V	T	SAN	...	TKAT	PVA	ED	LAD	ADI	...	347	
consensus				**!!!	*****	**	*	***	*****	**	*	*									*				

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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	D.....	387
269	KZH43 RS08665 WP 001085462.1	DELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DELEIEIEE	388
159	SP RS09750 WP 001085462.1	DELEIEIEE	388
499	SM12261 RS08315 WP 078228268.1	DELEIEIEE	384
527	SMSK321 RS11065 WP 001085454.1	DELEIEIEE	384
1030383	AB6M97 RS10650 WP 121836246.1	D.....	384
453	Spy49 1753c ACI62003.1	NGIEIED..	378
408	SMU RS09530 WP 002262392.1	DTIELED..	383
625	LCA RS02525 WP 011374196.1	.....	355
115	BSU 16940 NP 389576.2	.....	348
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	.....	347
1214	NCTC11637 00359 SQJ03206.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	EEL.....	372
1130	NGFG RS03960 WP 003688695.1	E.....	348
1124	NGFG RS03960 WP 003688695.1	E.....	348
1123	OK783 RS03845 WP 003688695.1	E.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EF.....	354
1142	GTF74 RS11550 WP 000344154.1	EF.....	354
1022	ACIAD RS06390 WP 004925639.1	.....	349
1074	ABD1 RS10195 WP 000344167.1	S.....	349
1205	PSJM300 05545 AFN77183.1	.....	347

consensus

- non conserved
- similar
- ≥ 50% conserved