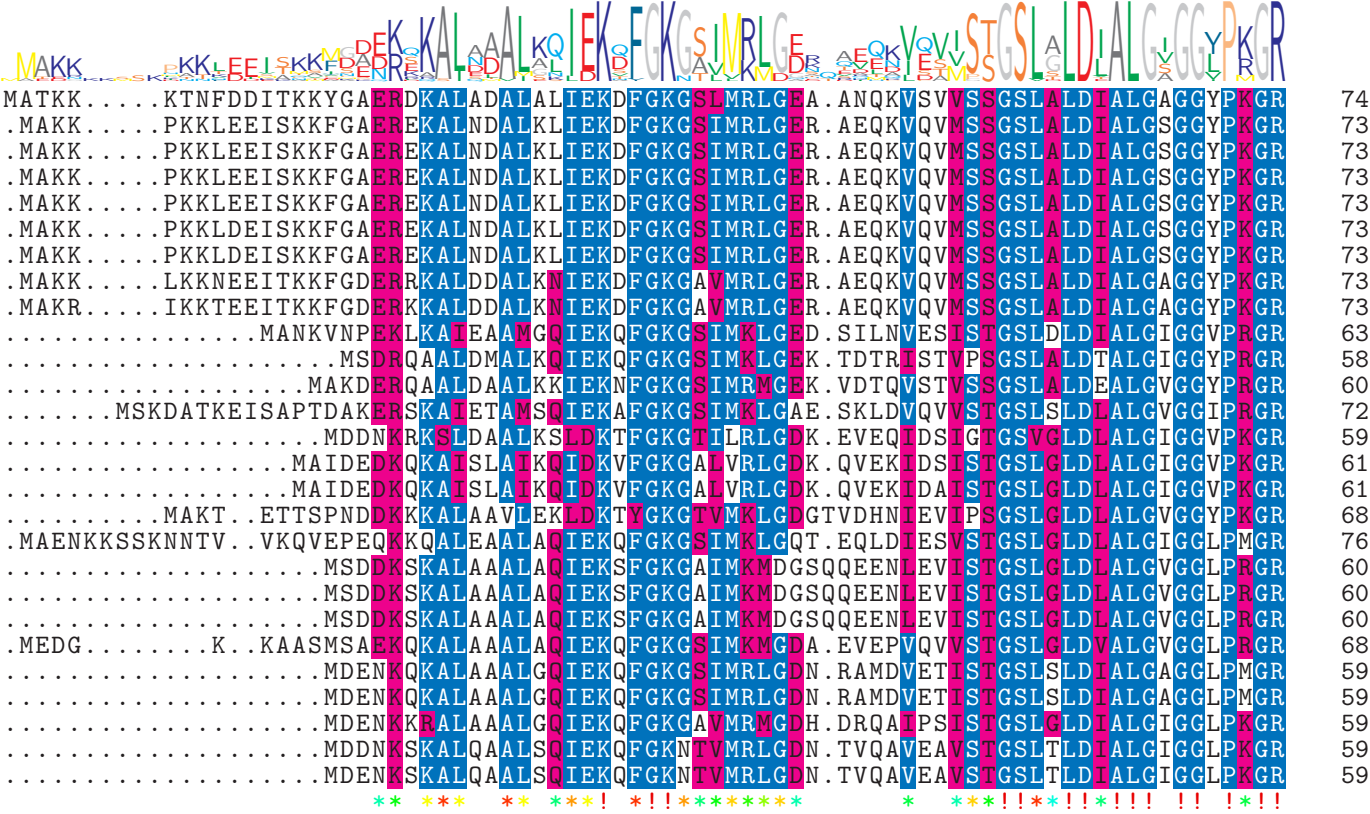


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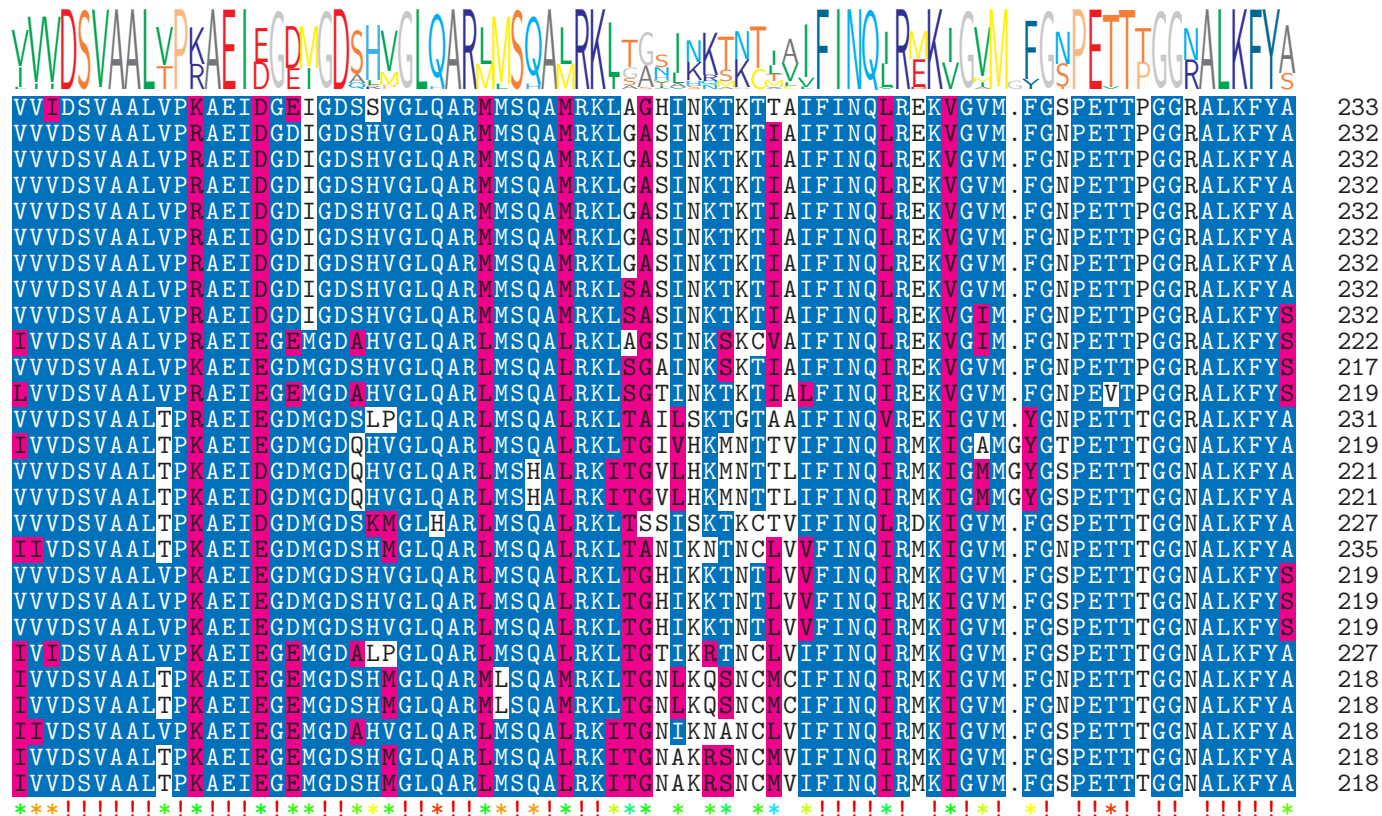
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NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 147351 CLSP0x RS12495 WP 003491344.1
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 RA0C 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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus




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NTDB id 600 KW2 RS01765 WP 011675413.1
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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKE	TNV	GKETK	KVVKNKVAPPF	K	AVVE	IMY	GEGIS	KT	GELL	KI	ASDL	DI	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKE	TNV	GKETK	KVVKNKVAPPF	K	AVVE	IMY	GEGIS	KT	GELL	KI	ASDL	DI	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKE	TNV	GKETK	KVVKNKVAPPF	K	AVVE	IMY	GEGIS	KT	GELL	KI	ASDL	DI	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKE	TNV	GKETK	KVVKNKVAPPF	K	AVVE	IMY	GEGIS	KT	GELL	KI	ASDL	DI	311
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKD	TNV	GKETK	KVVKNKVAPPF	K	AFVE	IMY	GEGIS	KT	GELL	KI	ASDL	DI	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TQIKGTG	.DQKD	SSI	GKETK	KVVKNKVAPPF	K	VAEVE	IMY	GEGIS	RT	GEL	VK	IASD	LI	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKD	SNL	GKETK	KVVKNKVAPPF	K	AFVE	ILY	GEGIS	RT	GEL	VK	IASD	LI	311
NTDB id 147351 CLSP0x RS12495 WP 003491344.1	SVRLDVR	RIDS	IKQGD	....	QIL	GNR	TRV	KI	NKNKVAPPF	K	MAE	F	DIMY	NEGIS	KV	297
NTDB id 115 BSU 16940 NP 389576.2	SVRL	EV	RRAE	QLKQGN	....	DVM	CNK	TK	KVVKNKVAPPF	R	TA	EVD	DIMY	GEGIS	KE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRL	EV	RRAE	TIKNGT		DM	CNR	ARI	KVVKNKVAPPF	K	VAE	V	DIMY	GEGIS	RT	294
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVR	KVAT		L	KQNE	EP	C	NRV	KV	KVVKNKVAPPF	R	QAE	F	DIMY	GEGIS	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRL	DIR	RIAS	....	L	KQNE	QHI	CNR	AK	KVVKNKVAPPF	R	EA	E	F	DIMY	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRL	DIR	RIAA	....	L	KQNE	QHI	CNR	AK	KVVKNKVAPPF	R	EA	E	F	DIMY	296
NTDB id 1334 RA0C RS04870 WP 004918236.1	SVRL	DIR	SLSD	TGKIKDKSGE	V	ICNR	TKV	KVVKNKVAPPF	K	SA	E	F	DIMY	GEGIS	W	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLD	IR	RCGV	....	V	KDGE	II	G	SETK	KVVKNKVAPPF	R	E	V	QF	DIMY	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLD	IR	RTGS		I	KKGE	EV	L	CNET	R	V	KV	I	KNKVAPPF	R	294
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NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLD	IR	RTGS		I	KKGE	EV	L	CNET	R	V	KV	I	KNKVAPPF	R	294
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NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLD	IR	RTGA		V	KEGE	EV	V	GSET	R	V	K	V	KVKNKVAPPF	R	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLD	IR	RIGQ	....	V	KEGE	DE	I	G	SETK	K	V	V	KVKNK	MAPPF	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLD	IR	RIGQ		V	KEGE	DE	I	G	SETK	K	V	V	KVKNK	MAPPF	293
consensus	*!!	*****!	*	*	*	*	*	*	*****!*	*****!	*****!	*	*	*****!	*****!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EAKN	YLKE	HQDV	FDEID	HKVRAAH	GLDD	SEVAETEEETTA		SKTKAKAKKEEK	AVETEEIELELED	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKY	LAEH	PEIF	DEID	KQVRSKF	GLDGE	EVSEQD	TENKK		DE	PKKEEA	..VNEEVPLDLGDE	381	
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKY	LAEH	PEIF	DEID	KQVRSKF	GLDGE	EVSEQD	TENKK		DE	PKKEEA	..VNEEVPLDLGDE	381	
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKY	LAEH	PEIF	DEID	KQVRSKF	GLDGE	EVSEQD	TENKK		DE	PKKEEA	..VNEEVPLDLGDE	381	
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKY	LAEH	PEIF	DEID	KQVRSKF	GLDGE	EVSEQD	TENKK		DE	PKKEEA	..VNEEVPLDLGDE	381	
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NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRY	LADHP	QLF	DEID	RKVVRVKF	GLEE	SEEEESAMAVASE		E		TDDLALDLDNG	373		
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFL	ADNPEI	FDDI	DHKV	RVVQY	GLIE	EDNTEEEKQSSEK	.....	ETDEK	..ADKNLVLELDDT	378			
NTDB id 147351 CLSP0x RS12495 WP 003491344.1	DTRLGQGR	ENAKQFL	KDNMNI	ALEI	ENTIR	KKHDL	LPVAD	VKNVNIANKK	.....	QDNKE	G	.....	352		
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFL	KENKDI	MLMI	QEIQ	IREHY	GLDN	NGVVQQAEETQE		E	..LEFE	..E		348	
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYL	ADHED	VEDEV	RLKV	RAAY	CTSD	VPEEDLPTTEDE		Q	..INILPDDSTE	E		355	
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGK	EKTIA	YIAER	PEME	QEIR	DRVMAA	TRAGNAGEAPALAPAPAAPEAA	FA	.....	.....	.....	.....	363		
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGR	ENAKSKA	ELKEN	PEIAD	EITKA	IQNSMC	TEGMI	SGSEDDE	..GEE	.....	.....	.....	343		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGR	ENAKALL	KEDK	ALADE	ITLKI	KESI	CSNEEI	MPLPDEP	..LEEME	.....	.....	.....	347		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGR	ENAKALL	KEDK	ALADE	ITLKI	KESI	CSNEEI	MPLPDEP	..LEEME	.....	.....	.....	347		
NTDB id 1334 RA0C RS04870 WP 004918236.1	DTKLGQGR	DTVKEL	IKDN	PEIAD	EELAK	IREKL	QAK	.....	.....	.....	.....	.....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NAVK	WLKEN	PEIAD	KLQE	IRNTLA	SNPNS	VLKATASDSN	DESD	VEEFSE	EEL	.....	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQKDN	VRV	WLKEN	PEISD	EIDAK	IRALNC	VEMHI	TEGT	QDET	DGERPE	E	.....	348		
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQKDN	VRV	WLKEN	PEISD	EIDAK	IRALNC	VEMHI	TEGT	QDET	DGERPE	E		348		
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NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQCR	DNCRE	FLREN	AEIARE	EIKNV	REHL	CVTPMG	AV	..TLAE	EEVEED			352		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQCK	ANACKY	LKEN	PEIA	KTLD	KKLRE	MLLPENM	QLIAETSSAA	DDVE	FGAVPE	EF	.....	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQCK	ANACKY	LKEN	PEIA	KTLD	KKLRE	MLLPENM	QLIAETSSAA	DDVE	FGAVPE	EF	.....	354		
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQCK	ANA	AKYLE	ENPEI	GGEI	EQQL	RAKLL	VTSAN	TKATP	VAEDLAD	ADI	.....	347		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQCK	NNVIRY	LEEN	PQIST	EIEAV	IREQL	LLTKASD	QTAA	..HDETE	EEPDLL	..ES	.....	349		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQCK	NNVIRY	FEEN	QIAE	EIER	NI	IREQL	LLTTGTN	GAVQ	..I	..EDEE	..PDLL	..LE	S	349
consensus	***!!!	*****	**	*****	*****	**	**	**			**				

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NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 147351 CLSP0x RS12495 WP 003491344.1		352
NTDB id 115 BSU 16940 NP 389576.2		348
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 1211 C694 RS00795 WP 000963128.1		347
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NTDB id 1334 RA0C RS04870 WP 004918236.1		343
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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 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