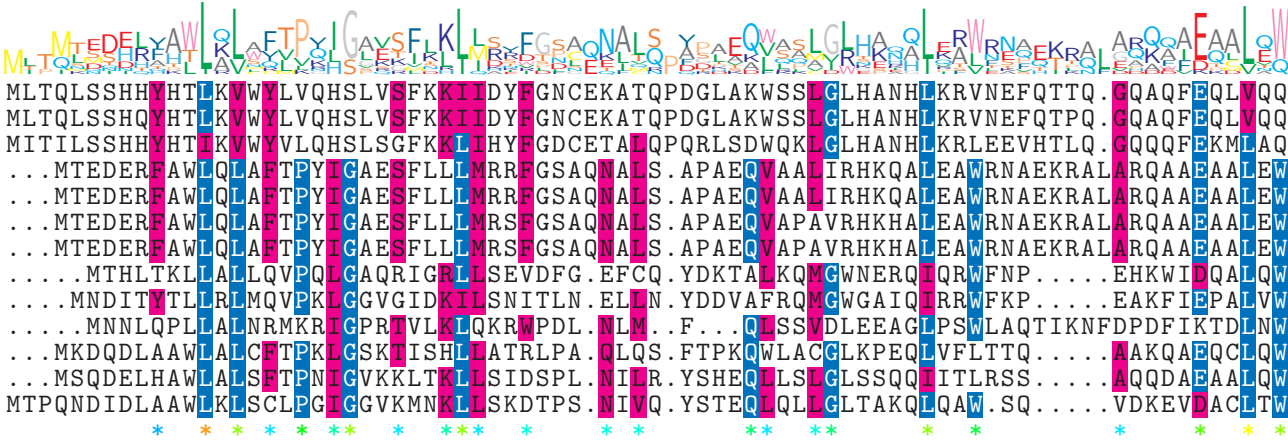


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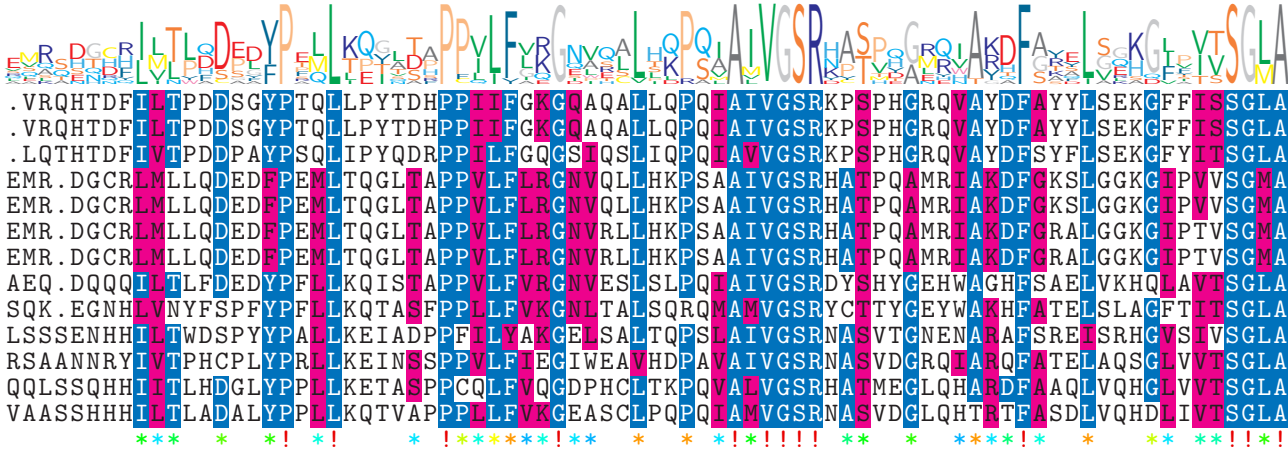
NTDB	id	1073	ABD1	RS00865	WP	015451369.1
NTDB	id	1043	HON27	RS16615	WP	168727007.1
NTDB	id	1021	ACIAD	RS00975	WP	004930462.1
NTDB	id	1094	KZH42	RS01320	WP	002224767.1
NTDB	id	1089	NMB	RS00600	WP	002224767.1
NTDB	id	1122	OK783	RS09595	WP	003705341.1
NTDB	id	1120	NGFG	RS10355	WP	020997408.1
NTDB	id	1388	A4U84	RS04945	WP	062924099.1
NTDB	id	1361	HI	0985	AAC22646.1	
NTDB	id	1250	GC085	RS13065	WP	027219989.1
NTDB	id	1152	A1552VC	RS00200	WP	000654772.1
NTDB	id	408652	GPY41	RS21430	WP	017789631.1
NTDB	id	1399	DSB67	RS15600	WP	010645755.1
consensus						



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NTDB	id	1073	ABD1	RS00865	WP	015451369.1
NTDB	id	1043	HON27	RS16615	WP	168727007.1
NTDB	id	1021	ACIAD	RS00975	WP	004930462.1
NTDB	id	1094	KZH42	RS01320	WP	002224767.1
NTDB	id	1089	NMB	RS00600	WP	002224767.1
NTDB	id	1122	OK783	RS09595	WP	003705341.1
NTDB	id	1120	NGFG	RS10355	WP	020997408.1
NTDB	id	1388	A4U84	RS04945	WP	062924099.1
NTDB	id	1361	HI	0985	AAC22646.1	
NTDB	id	1250	GC085	RS13065	WP	027219989.1
NTDB	id	1152	A1552VC	RS00200	WP	000654772.1
NTDB	id	408652	GPY41	RS21430	WP	017789631.1
NTDB	id	1399	DSB67	RS15600	WP	010645755.1
consensus						



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NTDB	id	1073	ABD1	RS00865	WP	015451369.1
NTDB	id	1043	HON27	RS16615	WP	168727007.1
NTDB	id	1021	ACIAD	RS00975	WP	004930462.1
NTDB	id	1094	KZH42	RS01320	WP	002224767.1
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NTDB	id	1122	OK783	RS09595	WP	003705341.1
NTDB	id	1120	NGFG	RS10355	WP	020997408.1
NTDB	id	1388	A4U84	RS04945	WP	062924099.1
NTDB	id	1361	HI	0985	AAC22646.1	
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NTDB	id	1152	A1552VC	RS00200	WP	000654772.1
NTDB	id	408652	GPY41	RS21430	WP	017789631.1
NTDB	id	1399	DSB67	RS15600	WP	010645755.1
consensus						



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NTDB id 1073 ABD1 RS00865 WP 015451369.1	EATLKSGSLITANKAAEQGKT	VF	IPGHIYSEFHQ	GCHQLIREGAILIDHPEQI	IEDIALPTQ		WQSQQQN	307		
NTDB id 1043 HON27 RS16615 WP 168727007.1	EATLKSGSLITANKAAEQGKT	VF	IPGHIYSEFHQ	GCHQLIREGAILIDHPEQI	IEDIALPTQ		WQSQQQN	307		
NTDB id 1021 ACIAD RS00975 WP 004930462.1	EATLKSGSLITANKAAEQGKV	VFAIPGHIYSEFHQ	GCHQLIREGAILVDHPEQI	IEDIALPTH		WHSQSTA		307		
NTDB id 1094 KZH42 RS01320 WP 002224767.1	EAAL	ESGSLITARLAAEMGREVM	AVPGSIDNPHSKGCHKL	IKDGAKLVECLDDILNECP	GLLQNTGASSYSINKGI	PEKR		314		
NTDB id 1089 NMB RS00600 WP 002224767.1	EAAL	ESGSLITARLAAEMGREVM	AVPGSIDNPHSKGCHKL	IKDGAKLVECLDDILNECP	GLLQNTGASSYSINKGI	PEKR		314		
NTDB id 1122 OK783 RS09595 WP 003705341.1	EAAL	ESGSLITAGLAAEMGREVM	AVPGSIDNPHSKGCHKL	IKDGAKLVECLDDILNECP	GLLQNTGASSYSINKD	TPDTG		314		
NTDB id 1120 NGFG RS10355 WP 020997408.1	EAAL	ESGSLITAGLAAEMGREVM	AVPGSIDNPHSKGCHKL	IKDGAKLVECLDDILNECP	GLLQNTGASSYSINKD	TPDTG		314		
NTDB id 1388 A4U84 RS04945 WP 062924099.1	EATV	NSGSLITARYALEQGREVF	ALPNSVQNPYSEGCHKL	IKEGALLVENVEDILEA	IAWQRQSVHIQPS.L	FD		300		
NTDB id 1361 HI 0985 AAC22646.1	EATE	KSGSLITARYALEQNREVF	AVPGNIQNKSSQGCHRL	IKQGAMLVENAKDILET	LYQHS.IHSQTE.ID	FD		300		
NTDB id 1250 GC085 RS13065 WP 027219989.1	EAAL	KSGSLITARMAL	EQNRDVLAI	PGSIHNPLARGCHYL	LQQGAKLVTSVAD	VLDL	KIEHH		293	
NTDB id 1152 A1552VC RS00200 WP 000654772.1	EAAEK	SGSLITARYAAEQGREVF	VVPGSIFNAASQGSN	QLIRQGACLVQSVQ	QIHHQELKNALT		WS		294	
NTDB id 408652 GPY41 RS21430 WP 017789631.1	EAAEK	SGSLITARYAAEQGREVF	ALPSS	LHITNARGGNAL	IKSGACLV	TGV	EDVLSEV	QTLLD		294
NTDB id 1399 DSB67 RS15600 WP 010645755.1	EAAEK	SGSLITARYALEQGREVF	ALPASINAPNAS	CGNQ	LIQNGACLVQNTQ	EV	LN	EQSLLD		296
consensus	!!*****!!	!!*****!!	!!*****!!	!!*****!!	!!*****!!	!!*****!!	!!*****!!	!!*****!!	!!*****!!	

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NTDB id 1073 ABD1 RS00865 WP 015451369.1	QT.....EEAN	TINTP	EIREHLID	LYQSLDWVGQN	IDQLV	VHHNIPV	SELTSS	SLMELELL	GLCMQQS	SGLYLRC	374							
NTDB id 1043 HON27 RS16615 WP 168727007.1	QT.....EETN	TINTP	EIPEHLID	LYQSLDWVGQN	IDQLV	VHHNIPV	SELTSS	SLMELELL	GLCMQQS	SGLYLRC	374							
NTDB id 1021 ACIAD RS00975 WP 004930462.1	SGEA.....NADD	SGKTDDA	DL	PDDL	LLPL	LYQLLD	WQQDL	DQLAQHY	QGSTAEL	TAQLMELELL	GVC	TIQQSG	RYLRC	379				
NTDB id 1094 KZH42 RS01320 WP 002224767.1	ITAVQTASD	QLSLPEGKMP	SEKT	ENRPVGG	SLDR	MGFDPVHP	DVL	AGQLAMPAAD	LYAA	LLELELD	GSVAAMP	PGGRYQR	394					
NTDB id 1089 NMB RS00600 WP 002224767.1	ITAVQTASD	QLSLPEGKMP	SEKT	ENRPVGG	SLDR	MGFDPVHP	DVL	AGQLAMPAAD	LYAA	LLELELD	GSVAAMP	PGGRYQR	394					
NTDB id 1122 OK783 RS09595 WP 003705341.1	RRAVQTAY..	APPPAAKMP	SEGA	AAGTAVGG	ILDK	MGFDPVHP	DVL	AGQLAMPAAD	LYAA	LLELELD	GSVAAMP	PGGRYQR	392					
NTDB id 1120 NGFG RS10355 WP 020997408.1	RRTVQTAY..	APPPAAKMP	SEGA	AAGTAVGG	ILDK	MGFDPVHP	DVL	AGQLAMPAAD	LYAA	LLELELD	GSVAAMP	PGGRYQR	392					
NTDB id 1388 A4U84 RS04945 WP 062924099.1	...TKP..	KQAVKSEPK	FAKNLP	ELTAC	QQQLFEQ	ISLE	PISVDD	LAKATDM	AVETAL	IELLNLELL	GVVKQ	VRGGY	VIT	375				
NTDB id 1361 HI 0985 AAC22646.1	...QI	AVPNYTPPP	DPR...RL	VEAP	SHPK	LYSR	IGYTPVS	IDD	LAEEFNLS	VDVLLV	QLLD	LELD	QDLT	ISENGLY	KRV	373		
NTDB id 1250 GC085 RS13065 WP 027219989.1	...T...S....	NKPI	FSLASGKE....	NLVKF	IGF	ETTTID	QIDRS	GYGMEQ	VTSG	LAELEL	KGAV	IAVP	PGGY	IRC	357			
NTDB id 1152 A1552VC RS00200 WP 000654772.1	...L...S....	SEQV	PYQATL	FS	AVQS	DEEL	PFPELLAN	VGIEATP	IDILASRT	QIPVQ	DI	MMQLLE	LELLGH	VAVP	PGGY	IRK	368	
NTDB id 408652 GPY41 RS21430 WP 017789631.1	...T...N	QQ....	ADLF	SSNT	EEQL	PFPQLLAN	VGNEATP	VDILAN	RNTNIP	VQEV	MMQLLE	LELSGH	VVAV	NGGY	IRR	364		
NTDB id 1399 DSB67 RS15600 WP 010645755.1	...I...N	QS....	LDLF	SAPID	EEEL	PFPQLLAN	VGNEATP	VDILASRT	NIPVQ	EV	MMQLLE	LELSGH	VVAV	SGGY	IRK	366		
consensus				*	*		**	****	!!	*		***	*	!!***!!	*	*****	!!***!!	

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NTDB id 1073 ABD1 RS00865 WP 015451369.1	RT	376
NTDB id 1043 HON27 RS16615 WP 168727007.1	RS	376
NTDB id 1021 ACIAD RS00975 WP 004930462.1	RSPY	383
NTDB id 1094 KZH42 RS01320 WP 002224767.1	IRT	397
NTDB id 1089 NMB RS00600 WP 002224767.1	IRT	397
NTDB id 1122 OK783 RS09595 WP 003705341.1	IRT	395
NTDB id 1120 NGFG RS10355 WP 020997408.1	IRT	395
NTDB id 1388 A4U84 RS04945 WP 062924099.1		375
NTDB id 1361 HI 0985 AAC22646.1		373
NTDB id 1250 GC085 RS13065 WP 027219989.1	EYER	361
NTDB id 1152 A1552VC RS00200 WP 000654772.1	GRG	371
NTDB id 408652 GPY41 RS21430 WP 017789631.1	GRG	367
NTDB id 1399 DSB67 RS15600 WP 010645755.1	GRG	369
consensus		

 non conserved
 similar
 $\geq 50\%$ conserved