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NTDB id 1313 DR RS12030 WP 010888966.1	MSK...DATKEISAPTDAKER	SKAT	ETAM	SQIEK	AFGKGS	IMKLGAE	.SKLDV	QVVM	STGSL	S	LDL	ALGV	GGIP	PRGR	ITE	75						
NTDB id 1160101 R2K01 RS13830 WP 003428218.1	.....MSVDQ	EKL	KALNEAL	GKIEK	DFGKGS	VMKLGAE	.TSMST	IDVT	STGAT	GLD	IA	TIG	GGL	PRGR	IVE	64					
NTDB id 600 KW2 RS01765 WP 011675413.1	MA..TKKKTNFDDITKKYGAER	DKALAD	ALALIEK	DFGKGS	IMRLGAE	.ANQKV	SVV	SSGSL	ALD	I	ALG	AGGY	PKGR	IVE	77							
NTDB id 269 KZH43 RS08665 WP 001085462.1	.M..AKKPKKLEEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 228 SPD RS09265 WP 001085462.1	.M..AKKPKKLEEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 194 SPR RS08825 WP 001085462.1	.M..AKKPKKLEEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 159 SP RS09750 WP 001085462.1	.M..AKKPKKLEEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.M..AKKPKKLDEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 499 SM12261 RS08315 WP 078228268.1	.M..AKKPKKLDEISKKFGE	EREKAL	NDAL	KLIEK	DFGKGS	IMRLGAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	SGGY	PKGR	IVE	76						
NTDB id 408 SMU RS09530 WP 002262392.1	.M..AKRIKKTEEITKKFGDER	RKALDD	ALKNIEK	DFGKG	AVMRL	GAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	AGGY	PKGR	IVE	76						
NTDB id 453 Spy49 1753c ACI62003.1	.M..AKKLLKNEEITKKFGDER	RKALDD	ALKNIEK	DFGKG	AVMRL	GAE	.AEQKV	QVM	SSGSL	ALD	I	ALG	AGGY	PKGR	IVE	76						
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQ	FGKGS	IMKLGAE	.TDTR	ISTV	PS	GSL	ALD	I	ALG	IGGY	PRGR	IVE	61						
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKN	FGKGS	IMRM	GAE	.VDTQ	VSTV	SSGSL	ALD	E	ALG	VGGY	PRGR	IVE	63						
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSL	DKTF	FGKCT	ILRL	CDK	.EVEK	IDS	IGT	GS	VGLD	I	ALG	IGGY	PRGR	IVE	62					
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQ	IDKV	FGKGA	LVRL	CDK	.QVEK	IDS	IST	GSL	GLD	I	ALG	IGGY	PRGR	IVE	64					
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQ	IDKV	FGKGA	LVRL	CDK	.QVEK	IDS	IST	GSL	GLD	I	ALG	IGGY	PRGR	IVE	64					
NTDB id 1334 RA0C RS04870 WP 004918236.1MAKTETTSPNDK	KKALAA	VLEK	LDK	TYGK	CTVM	KL	CD	GTVD	HNI	EV	PS	GSL	GLD	I	ALG	VGGY	PRGR	IVE	71		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKS	SKNNTV	VKQVE	PEQ	KKQAL	EALAA	LAQIEK	Q	FGKGS	IMKLG	Q	T	.EQLD	IESV	STGSL	GLD	I	ALG	IGGY	PRGR	IVE	79
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	G	SQ	Q	EEN	LEVI	STGSL	GLD	I	ALG	VGGY	PRGR	IVE	63					
NTDB id 1124 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	G	SQ	Q	EEN	LEVI	STGSL	GLD	I	ALG	VGGY	PRGR	IVE	63					
NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	G	SQ	Q	EEN	LEVI	STGSL	GLD	I	ALG	VGGY	PRGR	IVE	63					
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KKAASMSAEK	QKALAA	ALAAQIEK	Q	FGKGS	IMKMG	DA	.EVEP	VQVM	STGSL	GLD	I	ALG	VGGY	PRGR	IVE	71					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGS	IMRL	CDN	.RAMD	VETI	STGSL	S	LDL	I	ALG	AGGY	PRGR	IVE	62					
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGS	IMRL	CDN	.RAMD	VETI	STGSL	S	LDL	I	ALG	AGGY	PRGR	IVE	62					
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDNKSALQAALSQ	IEKQ	FGKNT	V	MRL	CDN	.TVQA	VEAV	STGSL	T	LDL	I	ALG	IGGY	PRGR	IVE	62					
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQ	IEKQ	FGKNT	V	MRL	CDN	.TVQA	VEAV	STGSL	T	LDL	I	ALG	IGGY	PRGR	IVE	62					
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQ	IEKQ	FGKGA	V	M	MG	DH	.DRQA	IPSI	STGSL	GLD	I	ALG	IGGY	PRGR	IVE	62					
consensus		**	***	**	**!	*!!	*****	*	***!	***!	*!!	!!	!!	!!	!!	!!						

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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGKTTI	ALAI	VQAQ	QKAG	GGTCAF	IDA	EAHALDP	VYARA	LGVM	DEL	LSQPD	N	GEQALE	IM	ELL	VRSGA	IV	VVV	155		
NTDB id 1160101 R2K01 RS13830 WP 003428218.1	VYGPESGKTTI	ALSCV	ASA	QKDG	GGIAAF	IDA	EAHALDP	VYAKAL	LGVD	VDN	LLSQPD	T	GEQALE	IA	EAL	TRSGA	IV	IV	144		
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGKTTI	ALHAVA	AAVQ	KEGG	IAAF	IDA	EAHALDP	YAKAL	LGVM	DELL	SQPD	V	GEQGLE	IA	EKL	IT	SGAVD	IV	157		
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	SQPD	S	GEQGLE	IA	EKL	IT	SGAVD	IV	156		
NTDB id 115 BSU 16940 NP 389576.2	VYGPESGKTTI	ALHATA	AEVQ	QKGG	TAAF	IDA	EAHALDP	VYAQK	LGVM	DELL	SQPD	T	GEQALE	IA	EAL	VRSGA	IV	VV	141		
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGKTTI	ALHAVA	AEVQ	QKGG	TAAV	IDA	EAHALDP	YAKAL	LGVM	DELL	SQPD	T	GEQGLE	IA	EAL	VRSGA	IV	IV	143		
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGKTTI	TLHII	AECQ	KAGG	VCAF	IDA	EAHALD	VKYAKN	LGVM	DD	LLYSQPD	F	GEQALE	IV	ETI	AR	SGAVD	IV	142		
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGKTTI	LSLHII	AECQ	KNGG	VCAF	IDA	EAHALD	VHYAKR	LGVD	DT	NLLV	SQPD	T	GEQALE	ILE	TT	TR	SGGID	IV	144	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGKTTI	LSLHII	AECQ	KNGG	VCAF	IDA	EAHALD	VHYAKR	LGVD	DT	NLLV	SQPD	T	GEQALE	ILE	TT	TR	SGGID	IV	144	
NTDB id 1334 RA0C RS04870 WP 004918236.1	IYGPESGKTTI	TLHATA	AEVQ	QKGG	TAAF	IDA	EAHALD	FMHYAEK	LGVM	DELL	SQPD	N	GEQALE	IA	DSL	TR	SGGID	IV	151		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGKTTI	TLSLIA	AQAQ	KNKTC	CAF	IDA	EAHALDP	VYARN	LGVM	DELL	SQPD	N	GEQALE	IC	DAL	VR	SGAVD	IV	159		
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGKTTI	LCLEAV	AQCQ	KNGG	VCAF	IDA	EAHALD	VYARK	LGVK	VE	ELLY	SQPD	T	GEQALE	IC	DTL	VR	SGGID	MVV	143	
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGKTTI	LCLEAV	AQCQ	KNGG	VCAF	IDA	EAHALD	VYARK	LGVK	VE	ELLY	SQPD	T	GEQALE	IC	DTL	VR	SGGID	MVV	143	
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGKTTI	LCLEAV	AQCQ	KNGG	VCAF	IDA	EAHALD	VYARK	LGVK	VE	ELLY	SQPD	T	GEQALE	IC	DTL	VR	SGGID	MVV	143	
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGKTTI	TLQVVA	AEMQ	KLGG	TCAF	IDA	EAHALD	VTYADK	LGVK	VP	LLSQPD	T	GEQALE	IA	DAL	VR	SGSVD	IV	151		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGKTTI	TLLELIA	AAQR	EGKTC	CAF	IDA	EAHALDP	VYAKK	LGVM	DELL	SQPD	T	GEQALE	IC	DAL	AR	SGAVD	IV	142		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGKTTI	TLLELIA	AAQR	EGKTC	CAF	IDA	EAHALDP	VYAKK	LGVM	DELL	SQPD	T	GEQALE	IC	DAL	AR	SGAVD	IV	142		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGKTTI	TLQAIA	AQCQ	KAGG	TCAF	IDA	EAHALD	PQYARK	LGVD	ID	NLLV	SQPD	H	GEQALE	IA	DML	VR	SGAID	IV	142	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGKTTI	TLQAIA	AQCQ	KSGG	TCAF	IDA	EAHALD	PQYARK	LGVD	ID	NLLV	SQPD	N	GEQALE	IA	DML	VR	SGAID	IV	142	
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGKTTI	TLSVIA	AAQR	EGKTC	CAF	IDA	EAHALDP	DYAGK	LGVM	DD	LLV	SQPD	T	GEQALE	IT	DML	VR	SN	AVD	IV	142
consensus	**!!!!*!!!!*	!	**!	!* **	!****!*!* *!	!!	!!*****!	**!!!!*	!!!!*!*!	*	****!*!*!	****									

