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NTDB id 1313 DR RS12030 WP 010888966.1	MSK...DATKEISAPTDAKER	SKAT	ETAM	SQIEK	AFGKGS	IMKLGAE	.SKLDV	QVVM	STGSL	SLD	I	ALGV	GGIP	GRITE	75				
NTDB id 109843 ABXS87 RS06880 WP 021364420.1MSVDQ	EKL	KALNEAL	GKIEK	DFGKGS	VMLGFA	.TSMST	DVIT	STGAT	GLD	I	ATIG	IGGL	PRGRIVE	64				
NTDB id 600 KW2 RS01765 WP 011675413.1	MA..TKKKTNFDDITKKYGAER	DKALADAL	LALIEK	DFGKGS	IMRLGFA	.ANQKV	SVV	SSGSL	ALD	I	ALGAG	GYPK	GRIVE	77					
NTDB id 269 KZH43 RS08665 WP 001085462.1	.M..AKKPKKLEEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 228 SPD RS09265 WP 001085462.1	.M..AKKPKKLEEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 194 SPR RS08825 WP 001085462.1	.M..AKKPKKLEEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 159 SP RS09750 WP 001085462.1	.M..AKKPKKLEEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.M..AKKPKKLDEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 499 SM12261 RS08315 WP 078228268.1	.M..AKKPKKLDEISKKFGAER	EKALNDAL	KLIEK	DFGKGS	IMRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGSG	GYPK	GRIVE	76					
NTDB id 408 SMU RS09530 WP 002262392.1	.M..AKRIKKTEEITKKFGDER	RKALDDAL	KNIEK	DFGKGAV	MRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGAG	GYPK	GRIVE	76					
NTDB id 453 Spy49 1753c ACI62003.1	.M..AKKLLKNEEITKKFGDER	RKALDDAL	KNIEK	DFGKGAV	MRLGER	.AEQKV	QVM	SSGSL	ALD	I	ALGAG	GYPK	GRIVE	76					
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQ	FGKGS	IMKLG	CEK	.TDTR	ISTV	PSGSL	ALD	I	ALGIG	GYPK	GRIVE	61				
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKN	FGKGS	IMRM	GCEK	.VDTQ	VSTV	SSGSL	ALD	EAL	GV	GGYPR	GRIVE	63				
NTDB id 1245 Cj1673c YP 002345041.1MDDNKRKSLDAALKSL	DKTF	FGKCT	ILRL	CDK	.EVEQ	IDS	IGT	GSV	GLD	I	ALGIG	GVPK	GRIVE	62				
NTDB id 1214 NCTC11637 00359 SQJ03206.1MAIDEDKQKATSLATKQ	IDKV	FGKGA	LVRL	CDK	.QVEK	IDA	IST	GSL	GLD	I	ALGIG	GVPK	GRIVE	64				
NTDB id 1211 C694 RS00795 WP 000963128.1MAIDEDKQKATSLATKQ	IDKV	FGKGA	LVRL	CDK	.QVEK	IDS	IST	GSL	GLD	I	ALGIG	GVPK	GRIVE	64				
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKTETTSPNDK	KKALAAV	LEK	LDK	TYGKCT	VMKLC	GTVD	HNI	EV	PSGSL	GLD	I	ALGV	GGYPK	GRIVE	71			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKS	SKNNTVVKQ	VEPEQ	KKQAL	EALAA	LAQIEK	Q	FGKGS	IMKLG	QQT	.EQLD	IESV	STGSL	GLD	I	ALGIG	GLPM	GRIVE	79
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	GSSQ	QEEN	LEVI	STGSL	GLD	I	ALGV	GGYPR	GRIVE	63				
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	GSSQ	QEEN	LEVI	STGSL	GLD	I	ALGV	GGYPR	GRIVE	63				
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAAQ	IEKSF	GKGA	IMKMD	GSSQ	QEEN	LEVI	STGSL	GLD	I	ALGV	GGYPR	GRIVE	63				
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KKAASMSAEK	QKALAAAL	AAQIEK	Q	FGKGS	IMKMG	DA	.EVEP	VQVM	STGSL	GLD	I	ALGV	GGYPR	GRIVE	71			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGS	IMRL	CDN	.RAMD	VETI	STGSL	SLD	I	ALGAG	GLPM	GRIVE	62				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGS	IMRL	CDN	.RAMD	VETI	STGSL	SLD	I	ALGAG	GLPM	GRIVE	62				
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDNKSALQAALSQ	IEKQ	FGKNT	V	MRL	CDN	.TVQA	VEAV	STGSL	TLD	I	ALGIG	GLPK	GRIVE	62				
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQ	IEKQ	FGKNT	V	MRL	CDN	.TVQA	VEAV	STGSL	TLD	I	ALGIG	GLPK	GRIVE	62				
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQ	IEKQ	FGKGA	V	MRM	G	DH	.DRQA	IPSI	STGSL	GLD	I	ALGIG	GLPK	GRIVE	62			
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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 109843 ABXS87 RS06880 WP 021364420.1	VYGPESGKTTI	ALSCV	ASAQ	KDGG	IAAF	IDA	EAHALDP	VYAKA	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	LSQPD	V	GEQGLE	IA	EKL	ITSGA	IV	IV	157	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGKTTI	ALHAVA	AQAQ	KDGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGKTTI	ALHAVA	AQAQ	KEGG	IAAF	IDA	EAHALDP	YAAAA	LGVM	DELL	LSQPD	S	GEQGLE	IA	EKL	ITSGA	IV	IV	156	
NTDB id 115 BSU 16940 NP 389576.2	VYGPESGKTTI	ALHATA	AEVQ	QQGG	QA	AF	IDA	EAHALDP	VYAQK	LGVM	DELL	LSQPD	T	GEQALE	IA	EAL	VRSGA	IV	141	
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGKTTI	ALHAVA	AEVQ	QGGT	AA	Y	IDA	EAHALDP	YAKL	LGVM	DELL	LSQPD	T	GEQGLE	IA	DAL	VSSGA	IV	143	
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGKTTI	TLHII	AECQ	KAGG	VCAF	IDA	EAHALD	VKYAK	NLGVM	TD	LLYSQPD	F	GEQALE	I	VET	ITRSGA	IV	IV	142	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGKTTI	LSLHII	AECQ	KNGG	VCAF	IDA	EAHALD	VHYAK	RLGVM	TD	ENLLYSQPD	T	GEQALE	I	LET	ITRSGG	IV	IV	144	
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGKTTI	LSLHII	AECQ	KNGG	VCAF	IDA	EAHALD	VHYAK	RLGVM	TD	ENLLYSQPD	T	GEQALE	I	LET	ITRSGG	IV	IV	144	
NTDB id 1334 RA0C RS04870 WP 004918236.1	IYGPESGKTTI	TLHAI	AEAQ	KVGG	TAAF	IDA	EAHALD	FMHYA	EKLC	T	NLELLYSQPD	N	GEQALE	I	ADSL	ITRSGG	IV	IV	151	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGKTTI	TLSLI	AQAQ	KGNK	TCAF	IDA	EAHALDP	VYARN	LGVM	DELL	LSQPD	N	GEQALE	I	CDAL	VRSGA	IV	IV	159	
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGKTTI	LCLEA	VACQ	QKNG	VCAF	IDA	EAHALD	VYARK	LGVM	DELL	LSQPD	T	GEQALE	I	CDTL	VRSGG	IV	IV	143	
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGKTTI	LCLEA	VACQ	QKNG	VCAF	IDA	EAHALD	VYARK	LGVM	DELL	LSQPD	T	GEQALE	I	CDTL	VRSGG	IV	IV	143	
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGKTTI	LCLEA	VACQ	QKNG	VCAF	IDA	EAHALD	VYARK	LGVM	DELL	LSQPD	T	GEQALE	I	CDTL	VRSGG	IV	IV	143	
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGKTTI	TLQV	V	AEMQ	KLGG	TCAF	IDA	EAHALD	VTYAD	KLGVM	DELL	LSQPD	T	GEQALE	I	ADAL	VRSG	IV	IV	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGKTTI	TLLEL	IAAA	QREG	KTCAF	IDA	EAHALDP	VYAKK	LGVM	DELL	LSQPD	T	GEQALE	I	CDAL	ARSGA	IV	IV	142	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGKTTI	TLLEL	IAAA	QREG	KTCAF	IDA	EAHALDP	VYAKK	LGVM	DELL	LSQPD	T	GEQALE	I	CDAL	ARSGA	IV	IV	142	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGKTTI	TLQAI	AQCQ	KAGG	TCAF	IDA	EAHALDP	QYARK	LGVM	DELL	LSQPD	H	GEQALE	I	ADML	VRSGA	IV	IV	142	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGKTTI	TLQAI	AQCQ	KSGG	TCAF	IDA	EAHALDP	QYARK	LGVM	DELL	LSQPD	N	GEQALE	I	ADML	VRSGA	IV	IV	142	
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGKTTI	TLSVI	IAAA	QRMG	STCAF	IDA	EAHALDP	DYAGK	LGVM	DELL	LSQPD	T	GEQALE	I	TDML	VRSGA	IV	IV	142	
consensus	**!!!!*!!!!*	!	**!	!* **	!****!	!* *!	!!	!!*****!	***!!!	*!!!!*!*	*	****!***!	****							

