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NTDB id 1245 Cj1673c YP 002345041.1	.....MD	DNKRKSLDAALKS	LDKT	FGKGTILRLGDK	.EVEQ	IDS	IGTGSVGLDL	ALGIGGV	PKGRIT	61			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAID	EDKQKATISLAIKQ	IDKV	FGKALVRLGDK	.QVEK	IDA	ISTGSLGLDL	ALGIGGV	PKGRIT	63			
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAID	EDKQKATISLAIKQ	IDKV	FGKALVRLGDK	.QVEK	IDS	ISTGSLGLDL	ALGIGGV	PKGRIT	63			
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPN	DDKKKALAAVLEK	LDKT	YGKGTVMKLG	DGTVDHN	IEV	IPSGSLGLDL	ALGVGGY	PKGRIV	70			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENK	KSSKNNTVVKQVEP	EQQKQALEAALA	IEKQ	FGKGSIMKLG	QT	.EQLD	IESVSTGSLGLDL	ALGIGGL	PMGRIV	78		
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MS	DDKSKALAAALA	IEKS	FGKGAIMKMDGS	QREEN	LEV	ISTGSLGLDL	ALGVGGL	PRGRIV	62			
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MS	DDKSKALAAALA	IEKS	FGKGAIMKMDGS	QREEN	LEV	ISTGSLGLDL	ALGVGGL	PRGRIV	62			
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MS	DDKSKALAAALA	IEKS	FGKGAIMKMDGS	QREEN	LEV	ISTGSLGLDL	ALGVGGL	PRGRIV	62			
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG	.....KKAASMSA	EKQKALAAALA	IEKQ	FGKGSIMKMG	DA	.EVEPVQV	VSTGSLGLD	ALGVGGL	PRGRVV	70		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLG	DN	.RAMD	VETISTGSL	SLDI	ALGAGGL	PMGRIV	61		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLG	DN	.RAMD	VETISTGSL	SLDI	ALGAGGL	PMGRIV	61		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MD	DNKSKALQAALSQ	IEKQ	FGKNTVMRLG	DN	.TVQAVE	AVSTGSL	TLDI	ALGIGGL	PKGRIV	61		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MD	ENKSKALQAALSQ	IEKQ	FGKNTVMRLG	DN	.TVQAVE	AVSTGSL	TLDI	ALGIGGL	PKGRIT	61		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MD	ENKSKALQAALSQ	IEKQ	FGKNTVMRLG	DN	.TVQAVE	AVSTGSL	TLDI	ALGIGGL	PKGRIV	61		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...	KKTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLG	EA	.ANQKVS	VVSSGSL	ALDI	ALGAGGY	PKGRIV	76	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...	KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...	KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGSGGY	PKGRIT	75	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...	KLKKNEEITKKFG	DERRKALDDALKN	IEKD	FGKGAVMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGAGGY	PKGRIT	75	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...	RIKKTEEITKKFG	DERKALDDALKN	IEKD	FGKGAVMRLG	ER	.AEQKVQ	VMSSGSL	ALDI	ALGAGGY	PKGRIV	75	
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQ	IEKQ	FGKGSIMKLGEK	.TDTR	ISTV	PSGSLALD	TALGIGGY	PRGRIT	60			
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAK	DERQAALDAALKK	IEKN	FGKGSIMRMGEK	.VDTQ	VSTV	SSGSLALD	EALGVGGY	PRGRIV	62			
NTDB id 39711 TSC RS02040 WP 015716335.1	.....MD	ENKRKALENALKT	IEKE	FGKGAVMRLGEM	.PKLQ	VDV	IPTGSLGLDL	ALGIGGI	PRGRIV	61			
NTDB id 1313 DR RS12030 WP 010888966.1	.MSK...	DA.TKEISAP	DAKERSKAL	IETAMSQ	IEKAF	FGKGSIMKLG	AE	.SKLDV	QVVSTGSL	SLDL	ALGVGGI	PRGRIT	74
consensus		*** **	**	**!	*****	*	*****!!!!!!	!!	!!!!**				





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NTDB id 1245 Cj1673c YP 002345041.1	RLDVRK	VAT	...	L	KQN	E	E	P	I	G	N	R	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	V	M	F	G	E	G	L	S	R	E	G	E	L	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	F	S	Y	K	D	K	296															
NTDB id 1214 NCTC11637 00359 SQJ03206.1	R	I	D	I	R	R	I	A	A	...	L	K	Q	N	E	Q	H	I	G	N	R	A	K	A	K	V	V	K	N	K	V	A	P	P	F	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	Q	D	K	298				
NTDB id 1211 C694 RS00795 WP 000963128.1	R	I	D	I	R	R	I	A	S	...	L	K	Q	N	E	Q	H	I	G	N	R	A	K	A	K	V	V	K	N	K	V	A	P	P	F	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	Q	D	K	298				
NTDB id 1334 RAOC RS04870 WP 004918236.1	R	I	D	I	R	R	S	L	S	D	T	G	K	I	K	D	K	S	G	E	V	I	G	N	R	T	K	V	V	K	N	K	V	A	P	P	F	K	S	A	E	F	D	I	M	Y	G	E	G	V	S	K	V	G	E	I	L	D	V	A	T	D	L	D	I	I	Q	K	S	G	S	W	F	S	Y	Q	D	T	309		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	R	L	D	I	R	R	C	G	V	...	V	K	D	G	D	E	I	I	G	S	E	T	K	V	V	V	K	N	K	V	A	P	P	F	R	E	V	Q	F	D	I	M	Y	G	E	G	I	S	R	M	N	E	L	L	I	L	A	E	A	N	G	F	I	K	S	G	A	W	F	S	Y	D	G	T	312						
NTDB id 1130 NGFG RS03960 WP 003688695.1	R	L	D	I	R	R	T	G	S	...	I	K	K	G	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	G	A	296					
NTDB id 1124 NGFG RS03960 WP 003688695.1	R	L	D	I	R	R	T	G	S	...	I	K	K	G	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	G	A	296					
NTDB id 1123 OK783 RS03845 WP 003688695.1	R	L	D	I	R	R	T	G	S	...	I	K	K	G	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	G	A	296					
NTDB id 1427 RS RS02760 WP 011000510.1	R	L	D	I	R	R	I	G	S	...	I	K	K	G	D	E	V	V	G	N	E	T	K	V	V	V	K	N	K	V	A	P	P	F	R	E	A	I	F	D	I	L	Y	G	A	G	V	S	R	E	G	E	I	I	D	L	G	V	E	A	K	V	V	E	K	S	G	A	W	S	Y	N	G	E	304						
NTDB id 1165 A1552VC RS01565 WP 000344154.1	R	L	D	I	R	R	T	G	A	...	I	K	E	G	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	G	D	295					
NTDB id 1142 GTF74 RS11550 WP 000344154.1	R	L	D	I	R	R	T	G	A	...	I	K	E	G	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	G	D	295					
NTDB id 1022 ACIAD RS06390 WP 004925639.1	R	L	D	I	R	R	I	G	Q	...	V	K	E	G	D	E	I	I	G	S	E	T	K	V	V	V	K	N	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	N	I	V	Q	K	A	G	A	W	S	Y	Q	G	N	295							
NTDB id 1074 ABD1 RS10195 WP 000344167.1	R	L	D	I	R	R	I	G	Q	...	V	K	E	G	D	E	I	V	G	S	E	T	K	V	V	V	K	N	K	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D	I	V	Q	K	A	G	A	W	S	Y	Q	G	N	295						
NTDB id 1205 PSJM300 05545 AFN77183.1	R	L	D	I	R	R	T	G	A	...	V	K	E	G	D	E	V	V	G	S	E	T	R	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	A	Y	K	G	S	295						
NTDB id 600 KW2 RS01765 WP 011675413.1	R	L	D	V	R	G	S	T	K	I	E	E	G	S	...	G	D	N	K	T	Q	I	G	K	I	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	L	V	D	I	M	F	G	E	G	I	S	S	T	G	E	L	L	N	I	A	V	E	E	G	I	I	K	S	G	A	W	F	A	Y	N	D	E	314	
NTDB id 269 KZH43 RS08665 WP 001085462.1	R	L	D	V	R	G	N	T	Q	I	K	G	T	G	...	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 228 SPD RS09265 WP 001085462.1	R	L	D	V	R	G	N	T	Q	I	K	G	T	G	...	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 194 SPR RS08825 WP 001085462.1	R	L	D	V	R	G	N	T	Q	I	K	G	T	G	...	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 159 SP RS09750 WP 001085462.1	R	L	D	V	R	G	N	T	Q	I	K	G	T	G	...	D	Q	K	E	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 499 SM12261 RS08315 WP 078228268.1	R	L	D	V	R	G	S	T	Q	I	K	G	T	G	...	D	Q	K	D	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	R	L	D	V	R	G	S	T	Q	I	K	G	T	G	...	D	Q	K	D	T	N	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	S	Y	K	D	E	313	
NTDB id 453 Spy49 1753c ACI62003.1	R	L	D	V	R	G	T	T	Q	I	K	G	T	G	...	D	Q	K	D	S	S	I	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	E	V	E	I	M	Y	G	E	G	I	S	R	T	G	E	L	V	K	I	A	S	D	L	D	I	I	Q	K	A	G	A	W	F	S	Y	N	G	E	313
NTDB id 408 SMU RS09530 WP 002262392.1	R	L	D	V	R	G	N	T	Q	I	K	G	T	G	...	E	Q	K	D	S	N	I	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	I	Y	G	E	G	I	S	R	T	G	E	L	V	K	I	A	S	D	L	G	I	I	Q	K	A	G	A	W	S	Y	N	G	E	313	
NTDB id 115 BSU 16940 NP 389576.2	R	L	E	V	R	R	A	E	Q	L	K	Q	G	N	...	D	V	M	G	N	K	T	K	I	K	V	V	K	N	K	V	A	P	P	F	R	T	A	E	V	D	I	M	Y	G	E	G	I	S	K	E	G	E	I	I	D	L	G	T	E	L	D	I	V	Q	K	S	G	S	W	S	Y	E	E	E	E					

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NTDB id 1245 Cj1673c YP 002345041.1	K I G Q G R E N S K A F L K E N P E I A D E I T K A I Q N S M G I E G M I S G S E D D . . E G E E . . . . .	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	K L G Q G R E N A K A L L K E D K A L A D E I T L K I K E S I G S N E E I M P L P D E . . P L E E M E . . . . .	347
NTDB id 1211 C694 RS00795 WP 000963128.1	K L G Q G R E N A K A L L K E D K A L A D E I T L K I K E S I G S N E E I M P L P D E . . P L E E M E . . . . .	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	K L G Q G R D T V K E L I K D N P E L A E E L E A K I R E K L Q A K . . . . .	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	K I G Q G K N N A V K W L K E N P E I A D K L E Q E I R N T L A S N P N S V L K A T A S D S N D E S D V . E E F S E . . . . . E E L . . . . .	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R . . . . . P E . . . . . E . . . . .	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R . . . . . P E . . . . . E . . . . .	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R . . . . . P E . . . . . E . . . . .	348
NTDB id 1427 RS RS02760 WP 011000510.1	R I G Q G R D N C R E F L R E N A E L A R E I E N K V R E H L G V T P M G A V T L A . E E V E E D . . . . .	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M Q L I A E T S S A A D D V E F . G A V P E . . . . . E F . . . . .	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M Q L I A E T S S A A D D V E F . G A V P E . . . . . E F . . . . .	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	K I G Q G K N N V I R Y L E E N P Q I S T E I E A V I R E Q L L T K A S D Q T A A . H D E T E E E P D L . L . . E S . . . . .	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	K I G Q G K N N V I R Y F E E N N Q I A E E I E R N I R E Q L L T T G T N G A V Q . I . E D E E E P D L . L . . L E . . . . . S . . . . .	349
NTDB id 1205 PSJM300 05545 AFN77183.1	K I G Q G K A N A A K Y L E E N P E I G Q E I E Q Q I R A K L L V T S A N T K A T P V A E D L A D A D I . . . . .	347
NTDB id 600 KW2 RS01765 WP 011675413.1	K I G Q G A E K A K N Y L K E H Q D V F D E I D H K V R A A H G L L D . . D S E V A E T E E E T T A S K T K A K A K K E E K A V E T E E I E L E L E D . . . . .	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D . . G E E V S E Q D T E N K K D E . . . . P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 228 SPD RS09265 WP 001085462.1	K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D . . G E E V S E Q D T E N K K D E . . . . P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 194 SPR RS08825 WP 001085462.1	K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D . . G E E V S E Q D T E N K K D E . . . . P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 159 SP RS09750 WP 001085462.1	K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D . . G E E V S E Q D T E N K K D E . . . . P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	K I G Q G S E N A K K Y L A D N P E I F D E I D H Q V R V Q F G L I D . . G E E I A E S . . . . K K D E . . . . A A Q V D S . . V N E E V T L D L G D E L E I E	381
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NTDB id 453 Spy49 1753c ACI62003.1	K I G Q G S E N A K R Y L A D H P Q L F D E I D R K V R V K F G L L E . . E S E E E S A M A V A S E . . . . . E . . . . . T D D L A L D L D N G I E I E	377
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