

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	L	V	V	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	232			
NTDB id 269 KZH43 RS08665 WP 001085462.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 228 SPD RS09265 WP 001085462.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 194 SPR RS08825 WP 001085462.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 159 SP RS09750 WP 001085462.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 499 SM12261 RS08315 WP 078228268.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 408 SMU RS09530 WP 002262392.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 453 Spy49 1753c ACI62003.1	L	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	231		
NTDB id 115 BSU 16940 NP 389576.2	I	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	216	
NTDB id 625 LCA RS02525 WP 011374196.1	I	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	218	
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	I	L	S	K	T	G	T	A	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	230	
NTDB id 1245 Cj1673c YP 002345041.1	L	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	T	V	I	F	I	N	Q	L	R	M	K	I	G	A	M	G	Y	G	T	P	E	T	T	P	G	G	N	A	L	K	F	Y	218
NTDB id 1211 C694 RS00795 WP 000963128.1	L	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	220		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	L	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	220		
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	K	M	G	L	H	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	C	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	226	
NTDB id 1130 NGFG RS03960 WP 003688695.1	M	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	218	
NTDB id 1124 NGFG RS03960 WP 003688695.1	M	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	218	
NTDB id 1123 OK783 RS03845 WP 003688695.1	M	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	218	
NTDB id 1145338 DXE33 RS06560 WP 114639180.1	L	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	A	I	K	R	T	N	T	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	234		
NTDB id 1427 RS RS02760 WP 011000510.1	L	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	226	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	V	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	234	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	V	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	217	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	V	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	217	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	L	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	217	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	L	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	217	
NTDB id 1205 PSJM300 05545 AFN77183.1	V	I	I	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	I	K	N	A	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G									

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NTDB id 600 KW2 RS01765 WP 011675413.1	NDEKIGQGA	EKAKNYL	KEHQDV	FDEID	HKVRAAH	CLDD	SEVAETE	EETTA	.SKTKAKAKKEEKAVETEEIELELED...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	KDEKIGQGS	ENAKKYL	LAEHPEI	FDEID	KQVRSKF	CLIDGE	EVS	EQDTENKK	.DE...PKKEEA..VNEEVPLDLGDELE	383	
NTDB id 228 SPD RS09265 WP 001085462.1	KDEKIGQGS	ENAKKYL	LAEHPEI	FDEID	KQVRSKF	CLIDGE	EVS	EQDTENKK	.DE...PKKEEA..VNEEVPLDLGDELE	383	
NTDB id 194 SPR RS08825 WP 001085462.1	KDEKIGQGS	ENAKKYL	LAEHPEI	FDEID	KQVRSKF	CLIDGE	EVS	EQDTENKK	.DE...PKKEEA..VNEEVPLDLGDELE	383	
NTDB id 159 SP RS09750 WP 001085462.1	KDEKIGQGS	ENAKKYL	LAEHPEI	FDEID	KQVRSKF	CLIDGE	EVS	EQDTENKK	.DE...PKKEEA..VNEEVPLDLGDELE	383	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KDEKIGQGS	ENAKKYL	ADNPEI	VFAEID	HQVRVQF	CLIDGE	EAAE	...SKK	.DE...VAQVDS..VNEEVTLDLGDELE	379	
NTDB id 499 SM12261 RS08315 WP 078228268.1	KDEKIGQGS	ENAKKYL	ADNPEI	FDEID	HQVRVQF	CLIDGE	EIAE	...SKK	.DE...AAQVDS..VNEEVTLDLGDELE	379	
NTDB id 408 SMU RS09530 WP 002262392.1	NGEKIGQGS	ENAKKFL	ADNPEI	FDDID	HKVRVQY	CLIEED	NTEEK	QSSKEK	...ETDEK..ADKNLVLELDDTIE	380	
NTDB id 453 Spy49 1753c ACI62003.1	NGEKIGQGS	ENAKRYL	ADHPQI	FDEID	RKVRVKF	CLLEE	EEEE	SAMAVASE	...E...TDDLALDLDNGIE	375	
NTDB id 115 BSU 16940 NP 389576.2	EEERL	GGREN	AKQFL	KENKDI	MLMIQE	QIREHY	CDN	NGVVQQAEETQE	.EL.EFE.E.....	348	
NTDB id 625 LCA RS02525 WP 011374196.1	GSEIR	IGQGRE	NAKNYL	ADHED	VEDEV	RLKVR	AAAYG	ISDV	PEEDLP	TTETE..QI.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	GDER	IGQCKE	KTIAYI	AERP	MEQE	IRDRV	MAAIR	RAGNAGE	APALAPAPAAP	AAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KDKKL	GGGR	ENSKAFL	KENPEI	ADEIT	KATQNSM	CEGM	ISG	..SEDDEGEE	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	QDKKL	GGGR	ENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEE	IMP	..LPDEPLEEME	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	QDKKL	GGGR	ENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEE	IMP	..LPDEPLEEME	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	QDTKL	GGGR	DIVKEL	LKDNPEI	AEELE	AKIREK	LQAK	.....	.....	.....	343
NTDB id 1130 NGFG RS03960 WP 003688695.1	NGAKIGQCKD	NVRVWL	KENPEI	SDEID	AKIRALN	GVEM	HITE	..GTQDET	DGERPEE	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	NGAKIGQCKD	NVRVWL	KENPEI	SDEID	AKIRALN	GVEM	HITE	..GTQDET	DGERPEE	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	NGAKIGQCKD	NVRVWL	KENPEI	SDEID	AKIRALN	GVEM	HITE	..GTQDET	DGERPEE	.....	348
NTDB id 1145338 DXE33 RS06560 WP 114639180.1	NGDR	IGQCKD	NVRD	FLKENPEI	AKDIAK	IREKL	CVK	VGS	AV..VTDVLSEEEVE	.....	363
NTDB id 1427 RS RS02760 WP 011000510.1	NGER	IGQGR	DNCRE	FLREN	AELARE	IKVREHL	CVTP	MGAV	..TLAAEEVEED	.....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	DGTKIGQCKN	NAVKWL	KENPEI	ADKLE	QEIRNT	LASN	PNSVL	..KATASDSN	DES	DVE...EFSEEEL.....	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	NGDKIGQCKA	NACKYL	KENPEI	AKTLD	KKLREML	LNPN	ENMQL	..IAETSSA	AD	DVEFG.....AVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	NGDKIGQCKA	NACKYL	KENPEI	AKTLD	KKLREML	LNPN	ENMQL	..IAETSSA	AD	DVEFG.....AVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	QGNKIGQCKN	NVIRY	LEN	PCISTE	IEAVI	REQ	LLTK	ASD	QT..AA.HDETE	EPDLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	QGNKIGQCKN	NVIRY	FEEN	QIAE	EIER	IREQ	LLTT	GT	NGA..VQ.I.EDE	EPDLL.....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KGSKIGQCKA	NAAKYL	LENPEI	GQEIE	QQIR	AKLL	VTS	ANTK	..ATPVAED	LADADI.....	347
consensus	***!!!	*****	* *	*****	*****	* *	* *	* *	*		

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NTDB id 600 KW2 RS01765 WP 011675413.1 ..... 387
NTDB id 269 KZH43 RS08665 WP 001085462.1 IEIEE 388
NTDB id 228 SPD RS09265 WP 001085462.1 IEIEE 388
NTDB id 194 SPR RS08825 WP 001085462.1 IEIEE 388
NTDB id 159 SP RS09750 WP 001085462.1 IEIEE 388
NTDB id 527 SMSK321 RS11065 WP 001085454.1 IEIEE 384
NTDB id 499 SM12261 RS08315 WP 078228268.1 IEIEE 384
NTDB id 408 SMU RS09530 WP 002262392.1 LED.. 383
NTDB id 453 Spy49 1753c ACI62003.1 IED.. 378
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
NTDB id 1214 NCTC11637 00359 SQJ03206.1 ..... 347
NTDB id 1334 RAOC RS04870 WP 004918236.1 ..... 343
NTDB id 1130 NGFG RS03960 WP 003688695.1 ..... 348
NTDB id 1124 NGFG RS03960 WP 003688695.1 ..... 348
NTDB id 1123 OK783 RS03845 WP 003688695.1 ..... 348
NTDB id 1145338 DXE33 RS06560 WP 114639180.1 ..... 363
NTDB id 1427 RS RS02760 WP 011000510.1 ..... 352
NTDB id 1389 A4U84 RS07560 WP 021112712.1 ..... 372
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ..... 354
NTDB id 1142 GTF74 RS11550 WP 000344154.1 ..... 354
NTDB id 1022 ACIAD RS06390 WP 004925639.1 ..... 349
NTDB id 1074 ABD1 RS10195 WP 000344167.1 ..... 349
NTDB id 1205 PSJM300 05545 AFN77183.1 ..... 347
consensus
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 non conserved
 similar
 ≥ 50% conserved