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NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 33858 BAMEG RS00940 WP 000971179.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGLAAKALIALGLSPEKVQKEVEALIG.....RGTEAS	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI	79
NTDB id 329 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 327 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
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NTDB	id	601	KW2	RS02615	WP	021036805.1	HL	Y	T	S	V	N	G	Q	K	K	Q	I	D	L	C	N	C	Y	Q	I	...	M	K	S	G	G	E	A	L	F	G	A	G	N	A	S	N	G	N	S	D	E		P	F	N	P	.	F	N	D	I	F	S	A	L	.	G	Q	.	D	F	N	G	A	A	S	N	Q		81									
NTDB	id	378	SMU	RS02690	WP	002263569.1	H	L	Y	A	N	V	N	G	Q	K	K	Q	I	D	L	C	N	C	Y	Q	I	...	M	K	T	D	P	E	N	G	P	L	N	H	.	S	Q	N	S	S		I	N	P	F	F	D	.	D	F	F	G	D	.	L	N	N	F	R	A	F	N	N	Q	D	L	P	N		80										
NTDB	id	241	SP	RS04015	WP	000882523.1	H	L	Y	T	N	L	N	G	K	Q	K	Q	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	D		F	D	P	.	F	G	D	F	F	N	D	.	L	N	N	F	R	P	S	S	N	..	T	P	P		77										
NTDB	id	281	KZH43	RS03550	WP	000882517.1	H	L	Y	T	N	L	N	G	K	Q	K	Q	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	D		F	D	P	.	F	G	D	F	F	N	D	.	L	N	N	F	R	P	S	S	N	..	T	P	P		77										
NTDB	id	245	SPD	RS03860	WP	000882517.1	H	L	Y	T	N	L	N	G	K	Q	K	Q	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	D		F	D	P	.	F	G	D	F	F	N	D	.	L	N	N	F	R	P	S	S	N	..	T	P	P		77										
NTDB	id	243	SPR	RS03635	WP	000882517.1	H	L	Y	T	N	L	N	G	K	Q	K	Q	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	D		F	D	P	.	F	G	D	F	F	N	D	.	L	N	N	F	R	P	S	S	N	..	T	P	P		77										
NTDB	id	33858	BAMEG	RS00940	WP	000971179.1	Q	T	V	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	E	G	V	A	A	R	V	.	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	..	L	L	G	S	N	E			146				
NTDB	id	85	BSU	O0860	NP	387967.1	Q	T	I	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	E	G	V	A	A	R	V	.	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	..	L	L	G	S	N	E			146				
NTDB	id	610	V4T04	RS10165	WP	012897346.1	S	T	L	R	F	S	P	R	A	E	E	V	M	T	A	A	S	F	L	A	I	H	N	N	S	E	A	V	G	T	E	H	L	Y	A	L	L	Q	V	E	D	.	G	F	G	L	Q	L	L	K	L		Q	K	I	N	I	V	S	.	L	R	K	E	.	L	E	K	R	T	G	L	K	V	P	E	S	K		153
NTDB	id	290	KZH43	RS10025	WP	001109677.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	D	E	A	E	Y	V	A																																																												

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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 33858 BAMEG RS00940 WP 000971179.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB id 601 KW2 RS02615 WP 021036805.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 33858 BAMEG RS00940 WP 000971179.1	GAIDASNILKPSLARGEELQCIGATTLDEYRKYIEKDAALERRFQPIHVDEPSLDESTQILKGLRDRYEAAHHRVSIITDDAIDA AVK	377
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSLARGEELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKS AVM	390
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKS YET YHHV IISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!!!*!!!!*****!!!!!! !! * !!!!!*!!!!!! * ****!*****!! !** *!****! *! !****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	LSNRYIQDRFLPDKAIDLDEAGSKVRLRSYTTTPNLKELEVKLEEIRKEKDAAVQSQEF EKAASLRDMEQRLREKLEDTKRQWK	397
NTDB id 378 SMU RS02690 WP 002263569.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQATRD EYEKAAYFRDQIAKYKEMQS.....A	404
NTDB id 241 SP RS04015 WP 000882523.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 281 KZH43 RS03550 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 245 SPD RS03860 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 243 SPR RS03635 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 33858 BAMEG RS00940 WP 000971179.1	LSDRYITDRFLPDKAIDLIDEAASKVRLRSYTTTPNLKELEVKLEEIRKEKDAAVQSQEF EKAASLRDMEQRLREKLEDTKRQWK	462
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLIDEAASKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEF EKAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLDEAAA AVKISVKNQQT KRLDLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHL PDS AIDLDEAAATVQNKAKHV KADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHL PDS AIDLDEAAATVQNKAKHV KADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHL PDS AIDLDEAAATVQNKAKHV KADDSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGKNLPDS AIDLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPDS AIDLDEASATVQVR IKK..EDKREI....T....PLDEALISGDIGA AVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDS AIDLDEASATVQVR IKK..EAKREI....T....PLDEALISGDIGA AVKQYKANQ.....K....	472
consensus	** !!!!! * !!!!!*!!!!!!*!!!!* **** * * * **** * * !* ** *	

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NTDB	id	601	KW2	RS02615	WP	021036805.1	E	V	T	D	E	M	P	V	I	T	E	K	D	I	E	Q	V	E	Q	K	T	Q	I	P	V	G	D	L	K	E	K	E	Q	T	L	I	N	L	A	D	D	L	K	A	H	V	I	G	Q	D	E	A	V	D	K	I	S	K	A	I	R	R	S	R	V	G	L	G	K	P	N	R	P	I	G	S	F	L	F	V	G	P		482																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	378	SMU	RS02690	WP	002263569.1	K	L	D	K	E	N	T	P	V	I	T	E	K	N	I	E	V	I	E	Q	K	T	N	I	P	V	G	E	L	K	E	K	E	Q	S	Q	L	I	H	L	A	D	D	L	K	T	R	V	I	G	Q	D	A	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		489																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	241	SP	RS04015	WP	000882523.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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NTDB	id	243	SPR	RS03635	WP	000882517.1	K	I	T	D	Q	D	T	P	S	I	S	E	K	T	I	E	H	I	I	E	Q	K	T	N	I	P	V	G	D	L	K	E	K	E	Q	S	Q	L	I	H	L	A	E	D	L	K	S	H	V	I	G	Q	D	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P		488																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	33858	BAMEG	RS00940	WP	000971179.1	E	Q	Q	G	K	E	N	S	E	V	T	V	E	D	I	A	N	V	V	S	T	W	T	R	I	P	V	S	K	L	A	Q	T	E	T	D	K	L	L	N	L	E	S	I	L	H	D	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	G	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G	P		547																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	85	BSU	O0860	NP	387967.1	E	K	Q	G	K	E	N	S	E	V	T	V	D	I	A	M	V	V	S	S	W	T	G	V	P	V	S	K	L	A	Q	T	E	T	D	K	L	L	N	E	N	I	L	H	S	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	G	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G	P		546																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	610	V4T04	RS10165	WP	012897346.1	.	V	K	E	D	K	R	Q	E	V	T	D	Q	A	V	V	A	S	T	L	T	G	V	P	T	Q	M	T	K	S	E	S	D	R	L	I	N	L	E	K	E	L	H	K	R	V	G	Q	E	E	A	T	S	A	V	S	R	A	I	R	R	A	R	S	G	V	A	D	S	R	P	M	G	S	F	M	F	L	G	P		555																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB	id	290	KZH43	RS10025	WP	001109677.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	289	SPD	RS10700	WP	001109677.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	287	SP	RS11210	WP	001109712.1	.	V	P	V	.	Y	K	D	L	V	T	E	S	D	I	L	T	T	L	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G	P		550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	377	SMU	RS09275	WP	002262344.1	.	P	L	L	K	K	R	A	E	V	K	E	E	D	I	L	A	T	L	S	K	L	S	G	I	P	V	K	L	T	Q	A	D	S	K	K	Y	L	N	L	E	R	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	N	Q	S	G	I	R	V	G	K	R	P	I	G	S	F	M	F	L	G	P		553																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	329	STER	RS00545	WP	011680614.1	.	A	K	F	P	K	P	A	L	V	D	A	D	Q	I	M	Q	T	L	S	R	L	S	G	I	P	V	E	K	M	T	Q	T	D	S	K	R	Y	L	N	L	E	S	E	L	H	K	R	V	I	G	Q	D	E	A	V	S	A	I	S	R	A	I	R	N	Q	S	G	I	R	T	G	K	R	P	I	G	S	F	M	F	L	G	P		556																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	297	STU	RS10020	WP	011225298.1	.	A	K	F	P	K	P	A	L	V	D	A	D	Q	I	M	Q	T	L	S	R	L	S	G	I	P	V	E	K	M	T	Q	T	D	S	K	R	Y	L	N	L	E	S	E	L	H	K	R	V	I	G	Q	D	E	A	V	S	A	I	S	R	A	I	R	N	Q	S	G	I	R	T	G	K	R	P	I	G	S	F	M	F	L	G	P		556																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 33858 BAMEG RS00940 WP 000971179.1	VIHSAEKVK.....	811
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved