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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSIIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGYPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 46790 HMPREF4655 RS01885 WP 000963126.1	.....MAIDEDKQKATSLATKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNTIEVTPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKAIMKMDGSQREENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKAIMKMDGSQREENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKAIMKMDGSQREENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKBALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
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NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	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	A	C	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	A	233		
NTDB id 269 KZH43 RS08665 WP 001085462.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 228 SPD RS09265 WP 001085462.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 194 SPR RS08825 WP 001085462.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 159 SP RS09750 WP 001085462.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 499 SM12261 RS08315 WP 078228268.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 453 Spy49 1753c ACI62003.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	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	A	232			
NTDB id 408 SMU RS09530 WP 002262392.1	VV	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	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	S	232			
NTDB id 115 BSU 16940 NP 389576.2	VV	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	I	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	S	217		
NTDB id 625 LCA RS02525 WP 011374196.1	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	I	A	L	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	S	219	
NTDB id 1313 DR RS12030 WP 010888966.1	VV	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	I	G	V	M	.	Y	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	231		
NTDB id 1245 Cj1673c YP 002345041.1	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	R	A	L	K	F	Y	A	219	
NTDB id 46790 HMPREF4655 RS01885 WP 000963126.1	VV	V	D	S	V	A	A	L	T	P	K	A	E	I	D	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	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	R	A	L	K	F	Y	A	221			
NTDB id 1211 C694 RS00795 WP 000963128.1	VV	V	D	S	V	A	A	L	T	P	K	A	E	I	D	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	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	R	A	L	K	F	Y	A	221			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VV	V	D	S	V	A	A	L	T	P	K	A	E	I	D	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	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	R	A	L	K	F	Y	A	221			
NTDB id 1334 RA0C RS04870 WP 004918236.1	VV	V	D	S	V	A	A	L	T	P	K	A	E	I	D	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	R	A	L	K	F	Y	A	227		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	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	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	VV	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	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 1124 NGFG RS03960 WP 003688695.1	VV	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	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 1123 OK783 RS03845 WP 003688695.1	VV	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	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 1427 RS RS02760 WP 011000510.1	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	R	A	L	K	F	Y	A	227	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	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	R	A	L	K	F	Y	A	218	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	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	R	A	L	K	F	Y	A	218	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	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	R	A	L	K	F	Y	A	218	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	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	R	A	L	K	F	Y	A	218	
NTDB id 1205 PSJM300 05545 AFN77183.1	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	L	K	N	A	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G</																						

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NTDB id 600	KW2	RS01765	WP 011675413.1	DEKIGQGAETKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED....	387
NTDB id 269	KZH43	RS08665	WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228	SPD	RS09265	WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194	SPR	RS08825	WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159	SP	RS09750	WP 001085462.1	DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQD TENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499	SM12261	RS08315	WP 078228268.1	DEKIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527	SMSK321	RS11065	WP 001085454.1	DEKIGQGSSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453	Spy49	1753c	ACI62003.1	GEKIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408	SMU	RS09530	WP 002262392.1	GEKIGQGSSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 115	BSU	16940	NP 389576.2	EEELGGGRENAAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625	LCA	RS02525	WP 011374196.1	SERIGQGSRENAKKNYLADHEDVEDEVRLKVVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1313	DR	RS12030	WP 010888966.1	DERIGQGKEKTIAYIAERPEMEQEI RDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245	Cj1673c	YP 002345041.1		DKKLGQGRENSKAFLENPEIADEITKAIQNSMGI EGMIS.....GSEDD..EGEE.....	343
NTDB id 46790	HMPREF4655	RS01885	WP 000963126.1	DKKLGQGRENAKALLKEDKALANETTLKIKESIGSNEEIM...PLPDE..PLEEME.....	347
NTDB id 1211	C694	RS00795	WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEIM...PLPDE..PLEEME.....	347
NTDB id 1214	NCTC11637	00359	SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEIM...PLPDE..PLEEME.....	347
NTDB id 1334	RA0C	RS04870	WP 004918236.1	DTKLGQGRD TVKELIKDNPEIAEELEAKIREKLQAK.....	343
NTDB id 1389	A4U84	RS07560	WP 021112712.1	GTKIGQGNNAVKWLKENPEIADKLEQEI RNTLASNPNSV...LKATASDSNDES..VEEFSEEL.....	372
NTDB id 1130	NGFG	RS03960	WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHIT...EGTQDETD.....GERPEE.....	348
NTDB id 1124	NGFG	RS03960	WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHIT...EGTQDETD.....GERPEE.....	348
NTDB id 1123	OK783	RS03845	WP 003688695.1	GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHIT...EGTQDETD.....GERPEE.....	348
NTDB id 1427	RS	RS02760	WP 011000510.1	GERIGQGRDNCREFLRENAEIAREIENKVRHGLVTPMGA...V.TLAEVEED.....	352
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	GDKIGQGANACKYWLKENPEIAKTLDKKLREMLLN PENMQ...LIAETSSAADDVE..FGAVPEEF.....	354
NTDB id 1142	GTF74	RS11550	WP 000344154.1	GDKIGQGANACKYWLKENPEIAKTLDKKLREMLLN PENMQ...LIAETSSAADDVE..FGAVPEEF.....	354
NTDB id 1074	ABD1	RS10195	WP 000344167.1	GNKIGQGNNVIRYFEENNQIAEIERNIREQLLTGTNG...AVQ.I.EDEEEDP...LLES.....	349
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	GNKIGQGNNVIRYLEENPQISTEIEAVIREQLLT KASDQ...TAA.HDETEEEDP...LLES.....	349
NTDB id 1205	PSJM300	05545	AFN77183.1	GSKIGQGANANAAYLEENPEIGQEIEQQIRAKLLVTSANT...KATPVAEDLADAD...I.....	347

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NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
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NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
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consensus

- ⊠ non conserved
- ⊠ similar
- ⊠ ≥ 50% conserved