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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSIIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 285952 C9E62 RS05820 WP 000963143.1	.....MAIDENKQKALAAALGQIEKQFGKGSIMRLGED.RSMDVETISTGSLSLDIALGAGGLPMGR	61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
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YVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGSIINKTKNTLAIFINQLRKIGMIFGNPETTJGGNALKFYA

NTDB id 600 KW2 RS01765 WP 011675413.1	VVIDSVAALVPKAEIDGDIIGDSSVGLQARMSQAMRKLGHINKTKTTFINQLREKVGVM.FGSPETTPGGRALKFYA	233
NTDB id 269 KZH43 RS08665 WP 001085462.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 228 SPD RS09265 WP 001085462.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 194 SPR RS08825 WP 001085462.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 159 SP RS09750 WP 001085462.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 499 SM12261 RS08315 WP 078228268.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLGASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 453 Spy49 1753c ACI62003.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLASINKTKTTFINQLREKVGVM.FGNPETTPGGRALKFYA	232
NTDB id 408 SMU RS09530 WP 002262392.1	VVVDSVAALVPRAEIDGDIIGDSHVGLQARMSQAMRKLASINKTKTTFINQLREKVGIM.FGNPETTPGGRALKFYA	232
NTDB id 115 BSU 16940 NP 389576.2	VVVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTTFINQIREKVGVM.FGNPETTPGGRALKFYA	217
NTDB id 625 LCA RS02525 WP 011374196.1	LVVDSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSTINKTKTTFINQIREKVGVM.FGNPEVTPGGRALKFYA	219
NTDB id 1313 DR RS12030 WP 010888966.1	VVVDSVAALTPRAEIEGDMGDSLPLGLQARLMSQALRKLTALISKTGTAAIFINQVREKIGVM.YGNPETTTGGNALKFYA	231
NTDB id 1245 Cj1673c YP 002345041.1	IVVDSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTVIHKMNTTIFINQIRMKIGMAYGTPTPETTTGGNALKFYA	219
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VVVDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVVHLMNTTLLIFINQIRMKIGMMGYGSPETTTGGNALKFYA	221
NTDB id 1211 C694 RS00795 WP 000963128.1	VVVDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVVHLMNTTLLIFINQIRMKIGMMGYGSPETTTGGNALKFYA	221
NTDB id 1334 RAOC RS04870 WP 004918236.1	VVVDSVAALTPKAEIDGDMGDSKMGHLHARLMSQALRKLTSISKTCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYA	227
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IIVDSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYA	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	VVVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYA	219
NTDB id 1124 NGFG RS03960 WP 003688695.1	VVVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYA	219
NTDB id 1123 OK783 RS03845 WP 003688695.1	VVVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYA	219
NTDB id 1427 RS RS02760 WP 011000510.1	IVIDSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYA	227
NTDB id 285952 C9E62 RS05820 WP 000963143.1	IVVDSVAALTPKAEIEGDIIGDSHMGLAARMMSQAMRKLGNLQSNLTLIFINQIRMKIGVM.FGNPETTTGGNALKFYA	220
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTTGNLQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYA	218
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTTGNLQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYA	218
NTDB id 1205 PSJM300 05545 AFN77183.1	IIVDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKTGNINKANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYA	218
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKTGNNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYA	218
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKTGNNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYA	218

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIKVV	KNVAPP	PFKVAL	VDIM	FGEGIS	STGELL	NTAVEEG	TI	IKKSG	AWFA	YNA	312																																					
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVV	KNVAPP	PFKEAF	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVV	KNVAPP	PFKEAF	VEIMYG	GEGISK	TGELLK	IASDL	DI	IKKAG	AWYS	YK	311																																					
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGKETK	IKVV	KNVAPP	PFKVAE	VEIMYG	GEGISRT	GELVKI	IASDL	DI	IKKAG	AWF	SYN	311																																					
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVV	KNVAPP	PFKEAF	VEI	IYGE	GISRTG	ELVKI	IASDL	GI	IKKAG	AWYS	YN	311																																				
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRA	AEQLKQGN	DVMGN	KT	IKVV	KNVAPP	FR	TAEVD	IMYG	GEGISKE	GEI	IDL	GTEL	DI	VQK	SGSW	YSYE	292																																		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRA	AETIKNGT	DMIGN	RARI	IKVV	KNVAPP	PFKVAE	VDIM	YG	GISRTG	EL	VDMA	VEKD	I	INK	SGSW	YSYG	294																																		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRK	IIGQ	PTKVG	NDA	VANT	VKI	KT	TVKN	KVA	APFKE	VEL	LA	LVY	GKGF	DL	QSL	DLV	GLA	ADMD	I	IKK	AGSF	YSYG	307																												
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVRK	VAT	L.KQN	EET	IGNR	VK	VVV	KNVAPP	FR	QAEF	DVM	FG	EG	LSR	EGEL	IDY	GV	KLD	DI	V	DK	SG	AWF	YSYK	294																												
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIR	RIAA	L.KQN	EQH	IGNR	AK	VVV	KNVAPP	FR	EAEF	DIM	F	G	E	G	E	I	DY	GV	KLD	I	V	DK	SG	AWLS	YQ	296																									
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIR	RIAS	L.KQN	EQH	IGNR	AK	VVV	KNVAPP	FR	EAEF	DIM	F	G	E	G	E	I	DY	GV	KLD	I	V	DK	SG	AWLS	YQ	296																									
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIR	RSLSDT	GKIKDK	SEV	IGNR	TK	VVV	KNVAPP	FK	SAEF	DIM	Y	G	E	G	V	S	V	G	E	L	D	V	A	T	D	L	D	I	I	Q	K	S	G	S	W	F	S	Y	Q	307												
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIR	RCGV	V.KDG	DEI	IGS	ETK	VVV	KNVAPP	FR	EV	QF	DIM	Y	G	E	G	I	S	R	M	N	E	L	L	I	L	A	E	A	N	G	F	I	K	K	S	G	A	W	F	S	Y	D	310								
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIR	RRTGS	I.KKG	EEV	LGN	ETRV	KV	IKNV	APPFR	QAEF	DIL	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	294										
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIR	RRTGS	I.KKG	EEV	LGN	ETRV	KV	IKNV	APPFR	QAEF	DIL	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	294										
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIR	RRTGS	I.KKG	EEV	LGN	ETRV	KV	IKNV	APPFR	QAEF	DIL	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	294										
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIR	RIGS	I.KKG	DEV	VGN	ETKV	VVV	KNVAPP	FR	EAEF	DIL	Y	G	A	G	V	S	R	E	G	E	I	D	L	G	V	E	A	K	V	V	E	K	S	G	A	W	S	Y	N	302											
NTDB id 285952	C9E62	RS05820	WP 000963143.1	SVRLDIR	RIGA	V.KEG	ENV	VGS	ETRV	KV	VV	KNK	I	A	A	P	F	K	Q	A	E	F	Q	I	L	Y	G	E	G	I	N	F	Y	G	E	L	V	D	L	G	V	K	E	L	I	E	K	A	G	A	W	S	Y	K	295
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIR	RRTGA	I.KEG	EEV	VGN	ETRI	KV	VV	KNK	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIR	RRTGA	I.KEG	EEV	VGN	ETRI	KV	VV	KNK	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIR	RRTGA	V.KEG	DEV	VGS	ETRV	KV	VV	KNVAPP	FR	QAEF	QIL	Y	G	K	G	I	R	N	G	E	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	A	Y	K	293												
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIR	RIGQ	V.KEG	DEI	IGS	ETKV	VVV	KNK	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	Q	N	I	V	Q	K	A	G	A	W	S	Y	Q	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIR	RIGQ	V.KEG	DEI	IGS	ETKV	VVV	KNK	M	A	P	P	F	R	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	293
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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1313 DR RS12030 WP 010888966.1
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 NTDB id 1211 C694 RS00795 WP 000963128.1
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 NTDB id 1165 A1552VC RS01565 WP 000344154.1
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 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
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
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	...	348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved
 similar
 ≥ 50% conserved