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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
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1023840 AB1X95 RS10105 WP 000963143.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
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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I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	E	Y	A	K	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	G	L	E	I	A	E	K	L	I	T	S	G	A	V	D	L	154
I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
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I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
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I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
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I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A					

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQ	GKI	TKI	KVVKNKVAPPF	KVALV	DIM	F	GEGIS	ST	GEL	IN	IA	VEEG	I	IKK	SGAW	F	AYN	312																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	I	KVVKNKVAPPF	KEAVVE	IMY	G	GEGIS	K	T	GEL	LK	IASD	L	DI	IKK	KAGAW	YSYK	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	I	KVVKNKVAPPF	KEAVVE	IMY	G	GEGIS	K	T	GEL	LK	IASD	L	DI	IKK	KAGAW	YSYK	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	I	KVVKNKVAPPF	KEAVVE	IMY	G	GEGIS	K	T	GEL	LK	IASD	L	DI	IKK	KAGAW	YSYK	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETK	I	KVVKNKVAPPF	KEAFVE	IMY	G	GEGIS	K	T	GEL	LK	IASD	L	DI	IKK	KAGAW	YSYK	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETK	I	KVVKNKVAPPF	KVAEVE	IMY	G	GEGIS	R	T	GEL	VK	IASD	L	DI	I	K	KAGAW	F	SYN	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	NI	IGKETK	I	KVVKNKVAPPF	KEAFVE	I	I	Y	G	E	GIS	R	T	GEL	VK	IASD	L	G	I	I	K	KAGAW	YSYN	311																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN....	DVM	G	NK	TKI	KVVKNKVAPPF	RTA	E	V	D	IMY	G	E	GIS	K	E	G	E	I	I	D	L	G	T	E	L	D	I	V	Q	K	S	G	W	Y	S	Y	E	292																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT....	DM	IGN	R	A	R	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	E	V	D	IMY	G	Q	GIS	R	T	GEL	V	D	M	A	V	E	K	D	I	I	N	K	S	G	W	Y	S	Y	G	294																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....	PTK	V	G	N	D	A	V	A	N	T	V	K	I	K	T	V	K	N	K	V	A	P	P	F	K	E	V	E	L	A	L	V	Y	G	K	G	F	D	Q	L	S	D	L	V	G	L	A	A	D	M	D	I	I	K	K	A	G	S	F	Y	S	Y	G	307																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....	L	K	Q	N	E	P	I	G	N	R	V	K	V	K	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	294																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....	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	GIS	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	296																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....	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	GIS	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	296																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLS	D	T	G	K	I	K	D	K	S	G	E	V	I	G	N	R	T	K	V	K	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	M	Y	G	E	G	V	S	K	V	G	E	I	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	SVRLDIRRCGV....	V	K	D	G	D	E	I	I	G	S	E	T	K	V	K	V	K	N	K	V	A	P	P	F	R	E	V	Q	F	D	I	M	Y	G	E	GIS	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	SVRLDIRRTGS....	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	GIS	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	N	294																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....	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	GIS	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	N	294																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....	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	GIS	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	N	294																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....	I	K	K	G	D	E	V	V	G	N	E	T	K	V	K	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	Y	S	N	302																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 1023840 AB1X95 RS10105 WP 000963143.1	SVRLDIRRIGA....	V	K	E	G	E	N	V	V	G	S	E	T	R	V	K	V	K	N	K	I	A	A	P	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	Y	S	Y	K	295																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....	I	K	E	G	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	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	Y	S	N	293																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....	I	K	E	G	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	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	Y	S	N	293																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....	V	K	E	G	D	E	V	V	G	S	E	T	R	V	K	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	Y	A	Y	K	293																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....	V	K	E	G	D	E	I	I	G	S	E	T	K	V	K	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	Q	N	I	V	Q	K	A	G	A	W	Y	S	Y	Q	293																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....	V	K	E	G	D	E	I	I	G	S	E	T	K	V	K	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	Y	S	Y	Q	293																																																																																																																																																																																																																																																																																																																																																																																																																																																					
consensus	* ! ! * * ! *	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

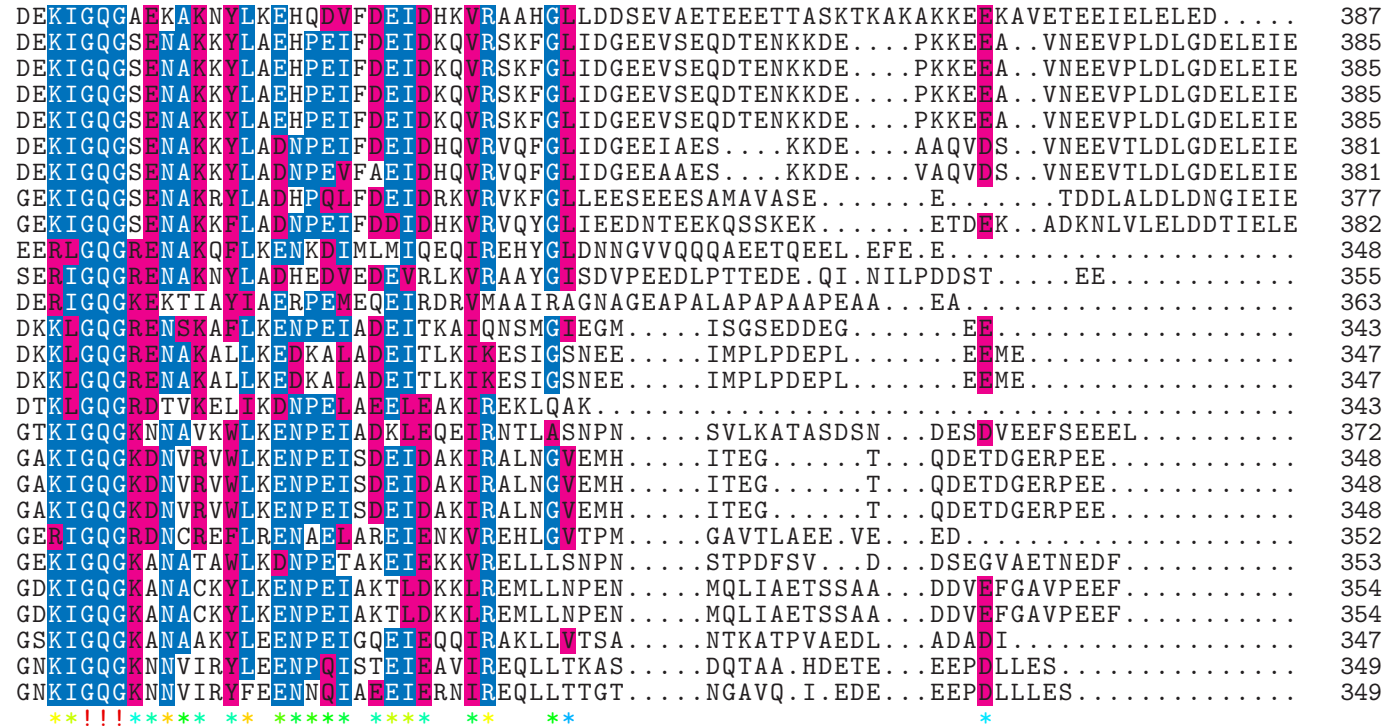
consensus

*!!***!* * ** *****!!!!!!*! * * *****!*!*** ***** ** *** ! !*****!

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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
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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
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1023840 AB1X95 RS10105 WP 000963143.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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logo

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 1023840 AB1X95 RS10105 WP 000963143.1	...	353
NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved