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Epidemiology of Tularemia among Humans and Animals, Baden-Wuerttemberg, Germany, 2012–2022

Appendix

Appendix Table 1. Epidemiologic information and genotyping results of 115 analyzed strains of *F. tularensis* subsp. *holarctica* from Baden-Wuerttemberg.

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
08T0014	08T0014	33291395	2008	FLI	Flacht-Wiessach	Boeblingen	Lepus europaeus	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63	6	6
08T0015	08T0015	33291395	2008	FLI	Hoefingen	Boeblingen	Lepus europaeus	B.6	B.7	B.138	T/N.1;B.217;B.74;B.45;B.166;B.138		
09T0109	09T0109	33291395	2009	FLI	Markdorf	Friedrichshafen	Lepus europaeus	B.6	B.60	B.60	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.60		9
09T0146	09T0146	33291395	2009	FLI	Zeilwald	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
10T0131	10T0131	33291395	2010	FLI	Oppenweiler	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
10T0134	10T0134	33291395	2010	FLI	Ludwigsburg	Ludwigsburg	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	3	1
10T0145	10T0145	33291395	2010	FLI	Oestringen	Karlsruhe	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	3	1
10T0162	10T0162	33291395	2010	FLI	Oppenweiler	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
10T0165	10T0165	33291395	2010	FLI	Buchen	Neckar-Odenwald-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	9	3
10T0167	10T0167	33291395	2010	FLI	Heidelberg	Neckar-Odenwald-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	9	3
10T0168	10T0168	33291395	2010	FLI	Duttenberg	Heilbronn	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45		
10T0188	10T0188	33291395	2010	FLI	Mulfingen	Hohenlohekreis	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	10	1
10T0189	10T0189	33291395	2010	FLI	Schwanau	Ortenaukreis	Lepus europaeus	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
10T0195	10T0195	33291395	2010	FLI	Loerrach	Loerrach	Lepus europaeus	B.6	B.53	B.53	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.53		
11T0041	11T0041	33291395	2011	FLI	Teningen	Emmendingen	Lepus europaeus	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		10
12T0023	12T0023	33291395	2012	FLI	Hochdorf	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
12T0048	12T0048	33291395	2012	FLI	Eberdingen	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		2
13T0036	13T0036	33291395	2013	FLI	Aspach	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
13T0063	13T0063	33291395	2013	FLI	Kernen	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	3	1
13T0064	13T0064	33291395	2013	FLI	Aspach	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
13T0110	13T0110	33291395	2013	FLI	Oppenweiler	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
14T0026	14T0026	33291395	2014	FLI	Oberriexingen	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
14T0098	14T0098	33291395	2014	FLI	Bad Saeckingen	Waldshut	Homo sapiens	B.6	B.61	B.279	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.279		
15T0224	15T0224	33291395	2015	FLI	Oppenweiler	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
15T0767	15T0767	33291395	2015	FLI	Ludwigsburg	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
15T0808	15T0808	33291395	2015	FLI	Enz-Kreis	Enz-Kreis	Lepus europaeus	B.6	B.45	B.302	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87;B.302		11
16T0007	16T0007	33291395	2016	FLI	Dertingen	Main-Tauber	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	7	1
16T0022	16T0022	33291395	2016	FLI	Stuttgart	Stuttgart	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	11	12
16T0051	16T0051	33291395	2016	FLI	Stuttgart	Stuttgart	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		2
16T0052	16T0052	33291395	2016	FLI	Stuttgart	Stuttgart	Lepus europaeus	B.6	B.61	B.279	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.279	12	2
16T0053	16T0053	33291395	2016	FLI	Stuttgart	Stuttgart	Lepus europaeus	B.6	B.61	B.279	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.279	12	2
16T0054	16T0054	33291395	2016	FLI	Stuttgart	Stuttgart	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	13	3
16T0621	16T0621	33291395	2016	FLI	Ludwigsburg	Ludwigsburg	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	11	12
16T0622	16T0622	33291395	2016	FLI	Schwaebisch-Hall	Schwaebisch Hall	Lepus europaeus	B.6	B.62	B.62	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.51;B.62		13
16T0623	16T0623	33291395	2016	FLI	Eltershofen	Schwaebisch Hall	Lepus europaeus	B.6	B.45	B.255	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.251;B.101;B.252;B.255		
16T1168	16T1168	33291395	2016	FLI	Goeppingen	Goeppingen	Lepus europaeus	B.12	B.39	B.215	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.39;B.215	14	14

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
16T1169	16T1169	33291395	2016	FLI	Goeppingen	Goeppingen	Lepus europaeus	B.12	B.39	B.215	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.39;B.215	14	14
16T1176	16T1176	33291395	2016	FLI	Weckrieden	Schwaebisch Hall	Lepus europaeus	B.12	B.33	B.103	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103	4	4
17T1202	17T1202	33291395	2017	FLI	Kirchberg-Murr	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
17T1203	17T1203	33291395	2017	FLI	Kirchberg-Murr	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
17T1415	17T1415	33291395	2017	FLI	Wasseralfingen Spitzwald	Aalen	Lepus europaeus	B.6	B.45	B.240	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.240	5	5
17T1542	17T1542	33291395	2017	FLI	Backnag	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
18T0029	18T0029	33291395	2018	FLI	Obergroenningen	Obergroenningen	Lepus europaeus	B.6	B.45	B.92	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.92		
18T0158	18T0158	33291395	2018	FLI	Abtsgmuend	Ostalbkreis	Lepus europaeus	B.12	B.33	B.103	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103	4	4
18T0161	18T0161	33291395	2018	FLI	Obersulm	Heilbronn	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	1	2
18T0163	18T0163	33291395	2018	FLI	Aalen	Ostalbkreis	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45		1
18T0164	18T0164	33291395	2018	FLI	Althengstett	Calw	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		2
18T0195	18T0195	33291395	2018	FLI	Bad Mergentheim-Loeffelstein	Main-Tauber	Lepus europaeus	B.6	B.49	B.266	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49;B.266	15	1
18T0198	18T0198	33291395	2018	FLI	Igersheim	Main-Tauber	Lepus europaeus	B.6	B.45	B.248	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.247;B.248		
18T2158	18T2158	33291395	2018	FLI	Niederalfingen-Neuler	Ostalbkreis	Lepus europaeus	B.6	B.45	B.101	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.251;B.101		
18T2163	18T2163	33291395	2018	FLI	Aalen	Ostalbkreis	Lepus europaeus	B.12	B.34	B.34	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.34		
18T2170	18T2170	33291395	2018	FLI	Kirchberg-Murr	Kirchberg-Murr	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
19T0002	19T0002	33291395	2019	FLI	Tuebingen	Tuebingen	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	16	2
19T0003	19T0003	33291395	2019	FLI	Wuestenrot	Heilbronn	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	10	1
19T0037	19T0037	33291395	2019	FLI	Reutlingen	Reutlingen	Lepus europaeus	B.6	B.45	B.248	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.247;B.248	17	15
19T0045	19T0045	33291395	2019	FLI	Tuebingen	Tuebingen	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		2
19T0046	19T0046	33291395	2019	FLI	Reutlingen	Reutlingen	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87		
19T0051	19T0051	33291395	2019	FLI	Reutlingen	Reutlingen	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	3	1
19T0062	19T0062	33291395	2019	FLI	Lauffen am Neckar	Heilbronn	Lepus europaeus	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	7	1

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
19T0063	19T0063	33291395	2019	FLI	Tuebingen	Tuebingen	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281	16	2
19T0098	19T0098	33291395	2019	FLI	Oehringen	Hohenlohekreis	Lepus europaeus	B.6	B.55	B.55	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.55		
19T0118	19T0118		2019	FLI	Schwaebisch Hall	Schwaebisch Hall	Lepus europaeus	B.12	B.33	B.103	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103	4	4
19T0120	19T0120		2019	FLI	Schwaebisch Hall	Schwaebisch Hall	Lepus europaeus	B.12	B.33	B.103	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103	4	4
19T0160	19T0160		2019	FLI	Beutelsbach	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87		3
19T0161	19T0161		2019	FLI	Wimsheim	Enz-Kreis	Lepus europaeus	B.6	B.45	B.302	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87;B.302		11
19T0165	19T0165		2019	FLI	Grossbettlinge	Esslingen	Lepus europaeus	B.6	B.45	B.238	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.238		
19T0191	19T0191		2019	FLI	Kirchberg	Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	2	1
19T0194	19T0194		2019	FLI		Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.240	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.240	5	5
19T0240	19T0240		2019	FLI		Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.240	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.240	5	5
19T0241	19T0241		2019	FLI		Rems-Murr-Kreis	Lepus europaeus	B.6	B.45	B.240	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.240	5	5
19T0279	19T0279		2019	FLI	Ludwigsburg	Ludwigsburg	Lepus europaeus	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63	6	6
19T0366	19T0366		2019	FLI		Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.284	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.284	8	2
19T0443	19T0443		2019	FLI	Boeblingen	Boeblingen	Lepus europaeus	B.6	B.61	B.283	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.283		7
19T0444	19T0444		2019	FLI	Schwaebisch Hall	Schwaebisch Hall	Lepus europaeus	B.6	B.45	B.240	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.240		
19T0454	19T0454		2019	FLI	Boeblingen	Boeblingen	Lepus europaeus	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63	6	6
20T0086	20T0086		2020	FLI	Alfdorf	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.283	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.283		7
20T0088	20T0088		2020	FLI	Schorndorf-Weiler	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.283	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.283		7
20T0142	20T0142		2020	FLI	Schrozberg	Schwaebisch Hall	Lepus europaeus	B.6	B.49	B.266	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49;B.266	15	1
20T0145	20T0145		2020	FLI	Illingen	Ludwigsburg	Lepus europaeus	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		2
20T0179	20T0179		2020	FLI	Winterbach	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.284	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.284	8	2
20T0202	20T0202		2020	FLI	Kressberg-Bergbronn	Schwaebisch Hall	Lepus europaeus	B.12	B.33	B.106	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103;B.106		
20T0233	20T0233		2020	FLI	Winterbach	Rems-Murr-Kreis	Lepus europaeus	B.6	B.61	B.284	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.284	8	2

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
20T0239	20T0239		2020	FLI	Schrozberg	Schwaebisch Hall	Lepus europaeus	B.6	B.45	B.248	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.247;B.248	17	15
20T0242	20T0242		2020	FLI		Main-Tauber	Lepus europaeus	B.6	B.46	B.46	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46		
20T0245	20T0245		2020	FLI	Buehlerzell	Schwaebisch Hall	Lepus europaeus	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		1
20T0246	20T0246		2020	FLI		Schwaebisch Hall	Lepus europaeus	B.6	B.62	B.110	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.51;B.62;B.110		13
20T0249	20T0249		2020			Calw	Lepus europaeus	B.6	B.61	B.288	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.285;B.287;B.288		
21T0014	21T0014		2021	FLI	Konstanz		Lepus europaeus	B.6	B.59	B.59	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.59		9
21T0015	21T0015		2021	FLI			Cyanistes caeruleus	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		
21T0101	21T0101		2021	FLI	Backnang	Rems-Murr-Kreis	Lepus europaeus	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63	18	8
22T0158	22T0158		2022	FLI	Heilbronn	Heilbronn	Lepus europaeus	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87		3
22T0160	22T0160		2022	FLI		Schwaebisch Hall	Lepus europaeus	B.6	B.61	B.279	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.279		
A1475	A1475		2019	RKI**		Ravensburg	Homo sapiens	B.6	B.45	B.91	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.91		
A1480	A1480		2019	RKI**		Emmendingen	Homo sapiens	B.6	B.61	B.279	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.279		
A1487	A1487		2019	RKI**		Breisgau-Hochschwarzwald	Homo sapiens	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		
A1489	A1489		2019	RKI**		Esslingen	Homo sapiens	B.6	B.61	B.281	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.281		
A1574	A1574		2019	RKI**		Alb-Donau-Kreis	Homo sapiens	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45		
A1586	A1586		2019	RKI**		Breisgau-Hochschwarzwald	Homo sapiens	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49		10
A1666	A1666		2020	RKI**		Main-Tauber-Kreis	Homo sapiens	B.6	B.45	B.248	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.247;B.248		
A1667	A1667		2020	RKI**		Heilbronn	Homo sapiens	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87	13	3
A1691	A1691		2020	RKI**		Breisgau-Hochschwarzwald	Homo sapiens	B.6	B.45	B.87	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.87		1
A1761	A1761		2021	RKI**		Ravensburg	Homo sapiens	B.12	B.33	B.103	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103		
A1772	A1772		2021	RKI**		Ortenaukreis	Homo sapiens	B.6	B.45	B.305	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.89;B.305		
A1817	A1817		2021	RKI**		Rhein-Neckar-Kreis	Homo sapiens	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	7	1
A1871	A1871		2021	RKI**		Alb-Donau-Kreis	Homo sapiens	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63		8

ID	Strain Name	Pubmed. BioProject. Accession	Year	Institute*	City	County (district)	Host	Major Clade	SubCan Snper1	SubCan Snper2	SNP_Path	Max SNPs_1	Max SNPs_5
A1893	A1893		2021	RKI**		Ravensburg	Homo sapiens	B.6	B.63	B.63	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.228;B.46;B.47;B.63	18	8
A1964	A1964		2022	RKI**		Ravensburg	Homo sapiens	B.6	B.45	B.91	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.91		1
A1985	A1985		2022	RKI**		Ostalbkreis	Homo sapiens	B.12	B.33	B.182	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.103;B.182		
ERR3555285	A936	PRJEB33006	2017	RKI		Ortenaukreis	Homo sapiens	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49	3	1
ERR3555286	A981	PRJEB33006	2017	RKI		Tuebingen	Homo sapiens	B.6	B.49	B.49	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.49	3	1
ERR3555295	A1158	PRJEB33006	2018	RKI		Ostalbkreis	Homo sapiens	B.6	B.61	B.287	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.50;B.61;B.285;B.287		
ERR3555297	A1174	PRJEB33006	2018	RKI	Karlsruhe	Karlsruhe	Homo sapiens	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45	3	1
ERR3555301	A9222	PRJEB33006	2017	RKI		Alb-Donau-Kreis	Homo sapiens	B.6	B.45	B.259	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45;B.259		
ERR3555305	A660	PRJEB33006	2015	RKI			Homo sapiens	B.6	B.45	B.45	T/N.1;T.1;B.1;B.2;B.3;B.5;B.6;B.10;B.11;B.44;B.45		
ERR3555308	A797	PRJEB33006	2016	RKI		Ortenaukreis	Homo sapiens	B.12	B.34	B.34	T/N.1;T.1;B.1;B.2;B.3;B.5;B.12;B.72;B.13;B.26;B.42;B.168;B.66;B.33;B.34		

*FLI: Friedrich-Loeffler-Institute, RKI: Robert-Koch-Institute

**unpublished

Appendix Table 2. Quality measures of raw sequencing data and assemblies using in this study

ID	Common name	perc_Q30	Reference genome size	Total reads	Theoretical coverage	1 st Match Genus	% 1 st Match Genus	1 st Match Species	Amplicon size RD-1	%1 st Match Species	# contigs	Assembly Size bp	N50	GC (%)
08T0014	08T0014	0,8329	1919424	21519832	1401	Francisella	99,74	F. tularensis	924	99,28	99	1783422	26890	32,25
08T0015	08T0015	0,845068	1919424	1430820	94	Francisella	97,74	F. tularensis	924	90,58	48	1876439	100618	32,45
09T0109	09T0109	0,86591	1919424	4212020	247	Francisella	96,95	F. tularensis	924	89,51	208	1771092	13573	32,38
09T0146	09T0146	0,854123	1919424	4944206	301	Francisella	97,87	F. tularensis	924	91,87	168	1772532	19291	32,3
10T0131	10T0131	0,908184	1919424	495492	60	Francisella	99,54	F. tularensis	924	98,1	97	1787965	27360	32,17
10T0134	10T0134	0,924141	1919424	979584	116	Francisella	99,19	F. tularensis	924	97,39	101	1789952	26622	32,17
10T0145	10T0145	0,851997	1919424	1098642	125	Francisella	99,15	F. tularensis	924	97,16	99	1787375	26987	32,17
10T0162	10T0162	0,867908	1919424	1712182	213	Francisella	99,4	F. tularensis	924	98,25	98	1787398	26986	32,17
10T0165	10T0165	0,867859	1919424	1209382	155	Francisella	99,56	F. tularensis	924	98,57	99	1787973	26986	32,17
10T0167	10T0167	0,882922	1919424	3835500	249	Francisella	99,72	F. tularensis	924	99,28	97	1783308	27534	32,25
10T0168	10T0168	0,872834	1919424	375196	52	Francisella	99,7	F. tularensis	924	98,75	122	1784280	22826	32,2
10T0188	10T0188	0,882563	1919424	3835500	249	Francisella	99,75	F. tularensis	924	99,09	99	1783495	26890	32,25
10T0189	10T0189	0,908807	1919424	1052868	135	Francisella	99,71	F. tularensis	924	98,71	99	1787592	26986	32,17
10T0195	10T0195	0,985098	1919424	450120	47	Francisella	99,56	F. tularensis	924	97,84	101	1788251	26986	32,18
11T0041	11T0041	0,907534	1919424	464562	54	Francisella	99,65	F. tularensis	924	98,22	100	1787589	26622	32,17
12T0023	12T0023	0,847103	1919424	892296	102	Francisella	99,41	F. tularensis	924	97,94	98	1787870	27087	32,17
12T0048	12T0048	0,923754	1919424	1318512	153	Francisella	99,58	F. tularensis	924	98,14	100	1787218	26622	32,17
13T0036	13T0036	0,929701	1919424	1049012	107	Francisella	99,48	F. tularensis	924	97,47	99	1787515	26986	32,17
13T0063	13T0063	0,903909	1919424	458154	49	Francisella	99,13	F. tularensis	924	97,08	99	1787376	26987	32,17
13T0064	13T0064	0,909839	1919424	473088	57	Francisella	99,66	F. tularensis	924	98,5	100	1787512	26622	32,17
13T0110	13T0110	0,916953	1919424	714542	80	Francisella	99,44	F. tularensis	924	97,77	101	1788356	26986	32,17
14T0026	14T0026	0,915765	1919424	515508	60	Francisella	99,72	F. tularensis	924	98,56	103	1787562	25319	32,17

ID	Common name	perc_Q30	Reference genome size	Total reads	Theoretical coverage	1 st Match Genus	% 1 st Match Genus	1 st Match Species	Amplicon size RD-1	%1 st Match Species	# contigs	Assembly Size bp	N50	GC (%)
14T0098	14T0098	0,913986	1919424	624540	72	Francisella	99,49	F. tularensis	924	98,03	99	1787354	26986	32,17
15T0224	15T0224	0,930571	1919424	3835500	251	Francisella	99,91	F. tularensis	924	99,41	94	1778156	29741	32,21
15T0767	15T0767	0,85033	1919424	537438	49	Francisella	98,65	F. tularensis	924	95,32	121	1782446	22825	32,2
15T0808	15T0808	0,917611	1919424	3835500	251	Francisella	99,06	F. tularensis	924	98,56	98	1777634	26890	32,21
16T0007	16T0007	0,88646	1919424	1516218	172	Francisella	99,62	F. tularensis	924	98,3	103	1787398	25319	32,17
16T0022	16T0022	0,894467	1919424	10751036	845	Francisella	99,6	F. tularensis	924	99,21	97	1785036	27598	32,19
16T0051	16T0051	0,912257	1919424	17114668	1346	Francisella	99,87	F. tularensis	924	99,46	98	1783817	26954	32,18
16T0052	16T0052	0,887631	1919424	13623366	1071	Francisella	99,84	F. tularensis	924	99,42	98	1784306	26954	32,18
16T0053	16T0053	0,907799	1919424	18131184	1426	Francisella	99,83	F. tularensis	924	99,39	98	1783823	26954	32,18
16T0054	16T0054	0,910388	1919424	15281316	1202	Francisella	99,85	F. tularensis	924	99,41	100	1785367	26955	32,19
16T0621	16T0621	0,901251	1919424	16002990	1258	Francisella	99,76	F. tularensis	924	99,35	97	1785224	27598	32,19
16T0622	16T0622	0,891143	1919424	10534434	828	Francisella	98,92	F. tularensis	924	98,56	103	1791701	27598	32,24
16T0623	16T0623	0,905518	1919424	17764264	1397	Francisella	99,82	F. tularensis	924	99,4	97	1784081	27329	32,18
16T1168	16T1168	0,910365	1919424	16784238	1320	Francisella	99,87	F. tularensis	924	99,47	98	1785689	26955	32,18
16T1169	16T1169	0,878727	1919424	12564418	988	Francisella	99,77	F. tularensis	924	99,38	98	1786059	26955	32,18
16T1176	16T1176	0,910066	1919424	17358442	1365	Francisella	99,78	F. tularensis	924	99,38	99	1787169	27594	32,19
17T1202	17T1202	0,914813	1919424	229874	30	Francisella	99,56	F. tularensis	924	98,42	109	1785548	23699	32,18
17T1203	17T1203	0,919931	1919424	771518	76	Francisella	98,82	F. tularensis	924	95,91	101	1787561	26617	32,17
17T1415	17T1415	0,846382	1919424	1118628	146	Francisella	99,59	F. tularensis	924	98,46	101	1787534	26622	32,17
17T1542	17T1542	0,908628	1919424	893928	115	Francisella	99,55	F. tularensis	924	98,47	97	1787881	27630	32,17
18T0029	18T0029	0,847484	1919424	1510702	194	Francisella	99,59	F. tularensis	924	98,49	98	1787413	26986	32,17
18T0158	18T0158	0,848574	1919424	896806	101	Francisella	99,2	F. tularensis	924	97,15	99	1789140	26987	32,17
18T0161	18T0161	0,850026	1919424	973790	123	Francisella	99,52	F. tularensis	924	98,33	99	1787459	26986	32,17
18T0163	18T0163	0,907138	1919424	3411906	255	Francisella	98,62	F. tularensis	924	94,52	99	1780489	26914	32,2
18T0164	18T0164	0,859399	1919424	1579162	203	Francisella	99,59	F. tularensis	924	98,52	99	1787755	26986	32,17
18T0195	18T0195	0,818289	1919424	709704	85	Francisella	99,45	F. tularensis	924	98,02	111	1787487	25319	32,17
18T0198	18T0198	0,865874	1919424	847686	95	Francisella	99,2	F. tularensis	924	97,3	100	1787484	26622	32,17
18T2158	18T2158	0,880439	1919424	968274	107	Francisella	99,25	F. tularensis	924	97,37	101	1786368	26987	32,18
18T2163	18T2163	0,859235	1919424	505346	58	Francisella	99,23	F. tularensis	924	97,59	121	1785256	23379	32,19
18T2170	18T2170	0,867952	1919424	835832	96	Francisella	99,18	F. tularensis	924	97,34	108	1786807	24075	32,17
19T0002	19T0002	0,88525	1919424	1332472	148	Francisella	98,88	F. tularensis	924	96,71	101	1787520	26622	32,17
19T0003	19T0003	0,871297	1919424	840420	105	Francisella	99,19	F. tularensis	924	97,68	97	1787881	27630	32,17
19T0037	19T0037	0,859935	1919424	649248	82	Francisella	99,3	F. tularensis	924	97,85	99	1787711	27087	32,17
19T0045	19T0045	0,840195	1919424	454826	60	Francisella	99,47	F. tularensis	924	98,45	99	1787771	26986	32,17
19T0046	19T0046	0,878162	1919424	696828	88	Francisella	99,18	F. tularensis	924	97,85	100	1787843	26986	32,17
19T0051	19T0051	0,919123	1919424	558894	57	Francisella	98,51	F. tularensis	924	95,56	102	1787166	26622	32,17
19T0062	19T0062	0,931185	1919424	351550	41	Francisella	99,33	F. tularensis	924	97,73	99	1787768	26986	32,17
19T0063	19T0063	0,929632	1919424	593624	66	Francisella	99,27	F. tularensis	924	97,58	99	1787513	26986	32,17
19T0098	19T0098	0,932753	1919424	508430	60	Francisella	99,49	F. tularensis	924	98,01	99	1787491	26986	32,17
19T0118	19T0118	0,929995	1919424	1022282	119	Francisella	99,25	F. tularensis	924	97,45	99	1788688	26987	32,17
19T0120	19T0120	0,939341	1919424	1365114	154	Francisella	99,45	F. tularensis	924	97,83	100	1788761	26622	32,17
19T0160	19T0160	0,933845	1919424	464870	44	Francisella	98,87	F. tularensis	924	95,94	107	1785050	25319	32,18
19T0161	19T0161	0,914462	1919424	489200	56	Francisella	99,27	F. tularensis	924	97,37	113	1787952	23378	32,17
19T0165	19T0165	0,948129	1919424	666492	77	Francisella	99,46	F. tularensis	924	97,93	99	1787083	26622	32,17
19T0191	19T0191	0,948198	1919424	495460	57	Francisella	99,39	F. tularensis	924	97,95	100	1787516	26986	32,17
19T0194	19T0194	0,944245	1919424	403108	47	Francisella	99,4	F. tularensis	924	98,01	103	1787536	26986	32,17
19T0240	19T0240	0,937387	1919424	849752	99	Francisella	99,44	F. tularensis	924	98,04	99	1787455	26986	32,17
19T0241	19T0241	0,94434	1919424	990612	117	Francisella	99,39	F. tularensis	924	98	99	1787629	26986	32,17

ID	Common name	perc_Q30	Reference genome size	Total reads	Theoretical coverage	1 st Match Genus	% 1 st Match Genus	1 st Match Species	Amplicon size RD-1	%1 st Match Species	# contigs	Assembly Size bp	N50	GC (%)
19T0279	19T0279	0,941236	1919424	289402	35	Francisella	99,26	F. tularensis	924	97,67	100	1788414	26986	32,17
19T0366	19T0366	0,952727	1919424	1006390	107	Francisella	98,96	F. tularensis	924	96,83	99	1787653	26986	32,17
19T0443	19T0443	0,94469	1919424	795124	95	Francisella	99,24	F. tularensis	924	97,53	100	1788314	26986	32,17
19T0444	19T0444	0,946427	1919424	840572	97	Francisella	99,08	F. tularensis	924	97,17	99	1787539	26986	32,17
19T0454	19T0454	0,94931	1919424	745994	85	Francisella	99,23	F. tularensis	924	97,29	99	1787461	26986	32,17
20T0086	20T0086	0,884593	1919424	1355142	163	Francisella	99,58	F. tularensis	924	98,06	101	1787668	26622	32,17
20T0088	20T0088	0,882977	1919424	1210092	151	Francisella	99,63	F. tularensis	924	98,28	105	1787434	26622	32,17
20T0142	20T0142	0,904315	1919424	1413610	151	Francisella	99,47	F. tularensis	924	97,43	100	1787547	26986	32,17
20T0145	20T0145	0,927147	1919424	1116200	113	Francisella	99	F. tularensis	924	96,14	100	1787501	26986	32,17
20T0179	20T0179	0,939465	1919424	1510160	162	Francisella	99,42	F. tularensis	924	97,44	102	1788248	26622	32,17
20T0202	20T0202	0,933466	1919424	1383614	154	Francisella	99,51	F. tularensis	924	97,79	100	1789458	26987	32,17
20T0233	20T0233	0,936012	1919424	1159010	125	Francisella	99,46	F. tularensis	924	97,47	99	1787476	26986	32,17
20T0239	20T0239	0,927745	1919424	1408126	141	Francisella	98,97	F. tularensis	924	96,12	102	1787425	27087	32,17
20T0242	20T0242	0,936004	1919424	1444474	158	Francisella	99,45	F. tularensis	924	97,53	100	1787700	26986	32,17
20T0245	20T0245	0,931795	1919424	1199176	137	Francisella	99,57	F. tularensis	924	97,98	99	1787457	26986	32,17
20T0246	20T0246	0,909998	1919424	994354	110	Francisella	99,29	F. tularensis	924	97,05	101	1787519	25319	32,17
20T0249	20T0249	0,929394	1919424	1526202	163	Francisella	99,39	F. tularensis	924	97,36	99	1787501	26986	32,17
21T0014	21T0014	0,910039	1919424	947358	104	Francisella	99,32	F. tularensis	924	97,35	100	1787792	26986	32,17
21T0015	21T0015	0,924485	1919424	722718	82	Francisella	99,29	F. tularensis	924	97,44	99	1788326	26986	32,17
21T0101	21T0101	0,909569	1919424	1086854	122	Francisella	99,28	F. tularensis	924	97,67	99	1787455	26986	32,17
22T0158	22T0158	0,898056	1919424	904542	103	Francisella	99,13	F. tularensis	924	97,06	104	1788264	26622	32,17
22T0160	22T0160	0,877948	1919424	1155732	125	Francisella	99,06	F. tularensis	924	96,99	101	1787547	25319	32,17
A1475	A1475	0,908671	1919424	2296304	282	Francisella	99,77	F. tularensis	924	97,18	100	1787473	26622	32,17
A1480	A1480	0,903298	1919424	2068024	279	Francisella	99,87	F. tularensis	924	97,89	101	1787366	25319	32,17
A1487	A1487	0,905523	1919424	1999958	205	Francisella	99,52	F. tularensis	924	97,22	104	1787520	26622	32,17
A1489	A1489	0,903301	1919424	2259708	276	Francisella	99,78	F. tularensis	924	97,26	102	1787251	26986	32,17
A1574	A1574	0,919836	1919424	2215730	247	Francisella	99,74	F. tularensis	924	97,28	101	1787358	26622	32,17
A1586	A1586	0,906455	1919424	1983348	190	Francisella	99,41	F. tularensis	924	96,79	100	1787496	26622	32,17
A1666	A1666	0,911837	1919424	2070744	185	Francisella	99,32	F. tularensis	924	96,28	110	1787735	25627	32,17
A1667	A1667	0,956283	1919424	3252902	330	Francisella	99,67	F. tularensis	924	97,67	110	1785716	24037	32,18
A1691	A1691	0,914437	1919424	2354084	201	Francisella	99,33	F. tularensis	924	96,21	101	1782938	26938	32,19
A1761	A1761	0,869957	1919424	2572432	341	Francisella	99,87	F. tularensis	924	98,44	101	1788955	25532	32,17
A1772	A1772	0,953461	1919424	3503162	297	Francisella	99,31	F. tularensis	924	95,67	99	1783155	26574	32,19
A1817	A1817	0,910867	1919424	2743958	337	Francisella	99,83	F. tularensis	924	97,95	99	1787597	26986	32,17
A1871	A1871	0,848014	1919424	3002474	361	Francisella	99,76	F. tularensis	924	97,39	100	1788109	26986	32,18
A1893	A1893	0,825448	1919424	2436686	324	Francisella	99,88	F. tularensis	924	98,16	102	1787443	26622	32,17
A1964	A1964	0,838963	1919424	2988750	398	Francisella	99,83	F. tularensis	924	98,05	174	1767999	16292	32,28
A1985	A1985	0,787212	1919424	1252624	186	Francisella	99,9	F. tularensis	924	99,25	101	1787238	25293	32,18
ERR3555285	A936	0,808932	1919424	1264112	198	Francisella	99,49	F. tularensis	924	98,16	106	1787944	23411	32,19
ERR3555286	A981	0,821471	1919424	848396	133	Francisella	99,45	F. tularensis	924	98,18	119	1795371	23411	32,2
ERR3555295	A1158	0,953942	1919424	2111968	238	Francisella	99,58	F. tularensis	924	98,2	114	1784242	24075	32,18
ERR3555297	A1174	0,950619	1919424	2296300	247	Francisella	99,66	F. tularensis	924	98,06	114	1784623	23379	32,19
ERR3555301	A9222	0,945972	1919424	2457960	288	Francisella	99,73	F. tularensis	924	98,48	105	1789309	26622	32,19
ERR3555305	A660	0,894455	1919424	1872754	239	Francisella	99,64	F. tularensis	924	98,81	101	1791472	26986	32,23
ERR3555308	A797	0,87495	1919424	2200074	304	Francisella	99,78	F. tularensis	924	99,26	101	1795134	27711	32,24

