

Strain	Date and Ref	Source	Origin	# plasmids	# PF32	Assembled length	chrom	cp26	lp54	lp36	lp17	lp17+ lp28-4	lp25	lp38	lp56	lp28-2	lp28-3	lp28-4	lp28-4+ cp32-1	lp28-6	lp28-7	lp28-8	lp28-9	cp32-1	cp32-3	cp32-3+ lp25	cp32-4	cp32-5	cp32-6	cp32-7	cp32-9	cp/lp32- 10	cp32-11	cp32-12	
Arh913	2012	<i>I. persulcatus</i>	Russia	15	18	1255	906.4	27.3	58.6	22.9	21.5		27.2	27.8			19.4	30.2		21	10.5			*			*		8.6	9.3	*	32.5	13.2	18.4	
Arh923	2012	<i>I. persulcatus</i>	Russia	15	17	1271	906.2	27.3	59.6	21.9		51.1	27.4	14			16.4			26.2	27		10.1			8.3	7.8		*	34.1	15.7				
FujiP2	[87]	<i>I. persulcatus</i>	Japan	18	18	1324	906.7	27.3	58.7	22.9	21.6		27.4				19.6	30.2		29.8	20.7	17.4		21.4		21.4	5.2	*	8.8	20.1	32.7	13.5	18.4		
Hiratsuka	2008 [88]	human	Japan	16	17	1319	906.3	27.3	59.7	22		51	27.4		22.9		15.8			29.2	26.9		8	27	16.4				7.9	24.9	29.7	16.5			
J-14	1995 [88]	human	Japan	16	16	1306	904	27.3	58.7	22.9		51.6	27.4				20.1			29.1	21	16.9				20.1		10.1	9.4	*	*	32.4	14	19	
J-15	1995 [88]	human	Japan	10	13	1190	903.6	27.3	57.7	22.4	17.8		28.7	27.2		26.6	17	29.9								*	*	*	*	*	31.9				
J-20T	1996 [88]	<i>I. persulcatus</i>	Japan	15	15	1232	906.7	27.3	57.2	32.1	18.1		29.2							28.9			12.7	6	*	5.3	8.4		7.5			46.6	9.4	8.7	
Konnai17	2011	<i>I. persulcatus</i>	Japan	15	15	1228	906.3	27.3	58.6	21.8		51.4		10.7						28.2	24.8 / 21			57	12.5	17.3		9.4	*	21.2	31.3	13.9	18.2		
N346	[89]	<i>I. persulcatus</i>	Japan	15	14	1194	906	27.2	59.8	18.6	20.4		29.1				24.7								7.4		5.5	11.4	7.6		14.2	9.3	8.1		
NT24	[90]	<i>I. persulcatus</i>	Japan	18	18	1318	906.9	27.2	58.6	23	21.4		27.4				20.5	30			21	17.8		22		21.7	7.3	7.3	9.9	30.7	32.5	14	19		
Prn7019	2012	<i>I. persulcatus</i>	Russia	11	15	1151	906.3	27.3	57.9	18.5	21.9		27	24.4			14.3	29.6			8.6					6		*	*	*	*	9.1			
Prn7564	2011	<i>I. persulcatus</i>	Russia	17	15	1240	906.4	27.3	57.3	20.4	21.1		25	14			15.7	30		8.5	27		10.1		16.4	8.3	7.1		5.5	34.1	5.6				
Prn7569	2011	<i>I. persulcatus</i>	Russia	13	18	1180	906.1	27.3	57.9	19.8	20.6		26.6	25.4			28.5	30.2			*	8.2		12.3		*	*	*	*	5.2	7		5		
Prn965	2013	<i>I. persulcatus</i>	Russia	13	16	1171	906.1	27.3	57.9	19.8	20.6		25									6.3	27.2	7.3	*		9.8	7.2	*	*	*	20.8		5.9	
61VB2		tick	Germany	11	13	1264	905.3	27.3	60.4	21.5	26.3						24.3		51		21.2	12.9				54.9		27.8							
A104S	1996 [11]	human	Netherlands	13	14	1315	902.3	27.1	60.4	21.3	26.3		24.1					50.9			28.2	8.3				54.7	21.1	29.9		31		29.8			
A91S	1996 [11]	human	Netherlands	12	14	1289	905.3	27.3	60.4	21.4	26.5		24.2					50.2			28	10				54.9	21.2	28.3		31.1					
DK6	1990 [11]	human	Denmark	10	13	1251	905.2	27.1	60.2	21.3	26.3		23.9					50.8			21.8					54.8		28.6		31.3					
Lubl25	1995 [11]	human	Slovenia	12	14	1284	905.5	27.3	60.4	21.3	24.5		24.1					50.8			28.4	8.2				54.9	21.2	27.8				30			
PBae I	1990 [7]	human	Germany	10	12	1251	905.4	27.1	60.5	21.4	24.9						32.5		46.8		28.3					54.9	21.2	27.8							
PBae II	1990 [11]	human	Germany	8	13	1139	894.8	26.9	60.4	20.7	25		23.9					49.2		26.5	11.3				*	*	*								
PBar	1988 [6]	human	Germany	12	14	1278	904.6	27.1	60.4	21.3	25.1						19.6		47.5		27.6	11.3				54.9	21.2	27.5				30			
PBi	1984 [91]	human	Germany	11	13	1280	905.8	27.1	60.4	21.2	24.6		24.1					50.9			22.8	*	28.4			54.9		28.6		31					
PBN	1999 [7]	human	Germany	11	13	1269	902.2	26.7	46.6	21.3	24.6		24.2					49.5			22.8	*	33.5			53.6		27.8		30.9					27.9
PHer I	1989 [11]	human	Germany	12	14	1287	905.2	27.1	60.3	21.5	24.9		24.2					50.6				27.7	12			54.8	21	27.8				30			
PLad	2000 [11]	human	Germany	12	14	1293	904.9	27.1	60.3	21.3	24.6		24.2					51			22.7	13.6	28.4			54.9		28.3		31.1					
PNeb	1988 [7]	human	Germany	12	14	1289	905.6	27.2	60.6	21.5	25.1		24.3					50.7			28.4	11.7				54.9	21.2	27.8				30			
PNi	2000 [6]	human	Germany	10	12	1240	905.7	27	46.6	21.3	24.6		24.1					48.8					28.4			55		26.9		31.1					
PRab	1994 [7]	human	Austria	11	13	1255	904.5	27	59.8	21.1	24.4		24					50.5			27.8	12				54.9	21.2	28.2							
PRof	1989 [6]	human	Germany	12	14	1288	903.8	27	60.4	21.4	24.6		24.1					50.4			22.6	13.3	26			54.9		28.1		31.1					
PIrob	1988 [7]	human	Slovenia	12	14	1290	905.5	27.2	60.5	21.4	24.4		24.1					51.1			28.2	12.9				54.9	21.2	28.2				30			
PWin	1987 [6]	human	Germany	12	14	1284	901.6	27.1	60.4	21.1	26		24.1					50.4			27.7	11.3				54.4	21.1	28.6				29.8			
PZwi	1994 [6]	human	Germany	11	13	1273	904.9	27.2	60.4	21.3	24.3		24.2					49.6								54.3	21	27.9				29.5			

Table 1: Genome content of 33 *Borrelia bavariensis* strains

The length of the main chromosome (chrom) and each assembled plasmid (of at least 5kb length) is shown. The three strains sequenced with both PacBio and Illumina data are shaded in gray. Date is date of isolation and is followed by the original reference (see Bibliography, if blank: this study). #PF32 is the number of Pfam 32 proteins identified by BLAST (see Methods) in the assembled data and in the contigs and * means a plasmid partition gene of the families (PF32, PF49, PF50 or PF57-62) was identified but no plasmid of at least 5kb length could be assembled. Length are in kb. °: isolate Konnai17 was a mixture of *B. afzelii* and *B. bavariensis*, we used clone number 1 which is only *B. bavariensis*.