

Supplemental Table 1. *Borrelia* strains used in this study. DNA from all strains came from collections maintained at the Bacterial Diseases Branch of the Division of Vector-Borne Diseases, Centers for Disease Control and Prevention (Fort Collins, CO, USA).

Species	Strain <sup>1</sup>	Geographic Source	Biological Source	Reference(s)
<i>B. burgdorferi</i> s.s.	B31 <sup>T</sup> (ATCC® 35210™)	New York	<i>I. scapularis</i>	www.atcc.org
<i>B. burgdorferi</i> s.s.	IRS (ATCC® 35211™)	Switzerland	<i>I. ricinus</i>	www.atcc.org
<i>B. burgdorferi</i> s.s.	CA6	California	<i>I. pacificus</i>	Brown et al. (2006); Margos et al. (2008)
<i>B. burgdorferi</i> s.s.	MN88-0003	Minnesota	<i>I. scapularis</i>	Mathiesen et al. (1997)
<i>B. burgdorferi</i> s.s.	SI1	Georgia	<i>Peromyscus gossypinus</i>	Lin et al. (2001); Mathiesen et al. (1997)
<i>B. mayonii</i>	MN14-1420 <sup>T</sup>	Upper Midwestern United States	Human blood	Pritt et al. (2016)
<i>B. mayonii</i>	MN14-1539	Upper Midwestern United States	Human blood	Pritt et al. (2016)
<i>B. miyamotoi</i>	HT31 <sup>T</sup>	Japan	<i>I. persulcatus</i>	Fukunaga et al. (1995)
<i>B. miyamotoi</i>	HT24	Japan	<i>I. persulcatus</i>	Fukunaga et al. (1995)
<i>B. miyamotoi</i>	CT13-2396	Connecticut	<i>I. scapularis</i>	Kingry et al. (2017)
<i>B. miyamotoi</i>	RI13-2395	Rhode Island	<i>I. scapularis</i>	Graham et al. (2016) <sup>2</sup>
<i>B. americana</i>	SCW-41; subgroup A <sup>T</sup> (ATCC® BAA-1877™)	South Carolina	<i>I. minor</i>	www.atcc.org; Rudenko et al. (2009b)
<i>B. andersonii</i>	21038 (ATCC® 700555™)	New York	<i>I. dentatus</i>	www.atcc.org
<i>B. andersonii</i>	SI-10	Georgia	<i>I. scapularis</i>	Lin et al. (2001)
<i>B. bissettae</i>	DN127 <sup>T</sup>	California	<i>I. pacificus</i>	Margos et al. (2016); Postic et al. (1998)
<i>B. bissettae</i>	CA389	California	<i>I. pacificus</i>	Brown et al. (2006); Margos et al. (2016)
<i>B. californiensis</i>	CA20	California	<i>Dipodomys californicus</i>	Margos et al. (2016)
<i>B. carolinensis</i>	SCW-22 (ATCC® BAA-1773™)	South Carolina	<i>I. minor</i>	www.atcc.org; Rudenko et al. (2009a)
<i>B. kurtenbachii</i>	25015 <sup>T</sup> (ATCC® BAA-2495™)	New York	<i>I. scapularis</i>	www.atcc.org; Margos et al. (2010)
<i>B. kurtenbachii</i>	IL96-255	Illinois	<i>Microtus pennsylvanicus</i>	Margos et al. (2010)

<sup>T</sup> Denotes type strain

<sup>1</sup> DNA from some strains was prepared from American Type Culture Collection cultures. These strains are indicated by an ATCC number.

<sup>2</sup> Graham et al. (2016) referred to strain RI13-2395 as US178-8(1-1).

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