S3 Table. Hydrogen bonds between FH20 and OspE in the CFI interaction.

FH residue	Distance (Å)	OspE residue	Analyzed from the crystal structure PDB 4J38*
Arg^{1182} (N$^{\eta2}$)	3.10	Asp^{73} (O$^{\delta2}$)	3.02
Arg^{1182} (N$^{\eta2}$)	2.81	Glu^{68} (O$^{\varepsilon2}$)	2.97
Arg^{1182} (N$^{\varepsilon}$)	n.d.	Thr^{84} (O$^{\gamma1}$)	3.75
Arg^{1182} (O)	2.76	Arg^{66} (N$^{\eta1}$)	2.67
Trp^{1183} (N$^{\varepsilon1}$)	n.d.	Thr^{84} (O$^{\gamma1}$)	n.d.
Trp^{1183} (O)	2.81	Asn^{77} (N$^{\delta2}$)	3.08
Thr^{1184} (O$^{\delta1}$)	n.d.	Asn^{77} (O$^{\delta1}$)	3.73
Ser^{1191} (OG)	3.10	Gly^{80} (O)	2.61
Glu^{1195} (O$^{\varepsilon2}$)	3.77	Tyr^{114} (N$^{\zeta}$)	n.d.
Glu^{1195} (O$^{\varepsilon2}$)	n.d.	Gly^{80} (N)	3.70
Ser^{1196} (O)	3.04	Ser^{82} (N)	n.d.
Ser^{1196} (O)	3.34	His^{81} (N$^{\delta1}$)	3.02
Ser^{1196} (O$^{\gamma}$)	3.83	Val^{120} (O)	n.d.
Glu^{1198} (N)	2.81	Ser^{82} (O)	2.82
Glu^{1198} (O$^{\varepsilon1}$)	n.d.	Thr^{84} (O$^{\gamma1}$)	2.90
Glu^{1198} (O$^{\varepsilon1}$)	3.62	Thr^{84} (N)	2.68
Arg^{1215} (N$^{\eta1}$)	2.88	Thr^{84} (O)	3.71
Arg^{1215} (N$^{\varepsilon}$)	2.92	Val^{120} (O)	2.83
Arg^{1215} (N$^{\eta1}$)	n.d.	Ile^{121} (O)	3.46

- Bhattacharjee A, Oeemig JS, Kolodziejczyk R, Meri T, Kajander T, Lehtinen MJ, et al. Structural basis for complement evasion by Lyme disease pathogen Borrelia burgdorferi. J Biol Chem. 2013;288(26):18685-95. doi: 10.1074/jbc.M113.459040. PubMed PMID: 23658013; PubMed Central PMCID: PMC3696643.