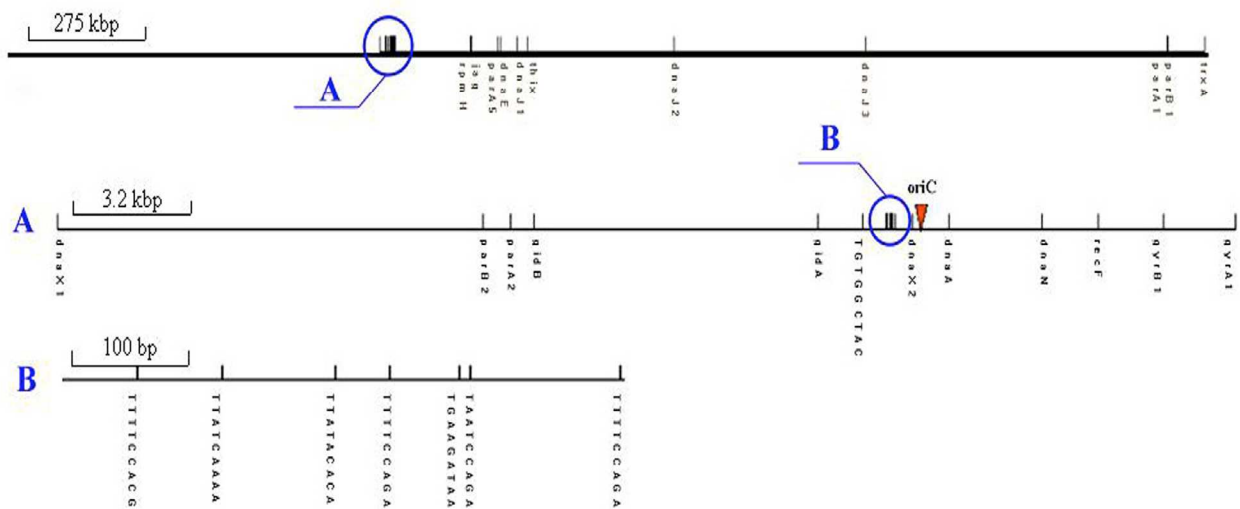


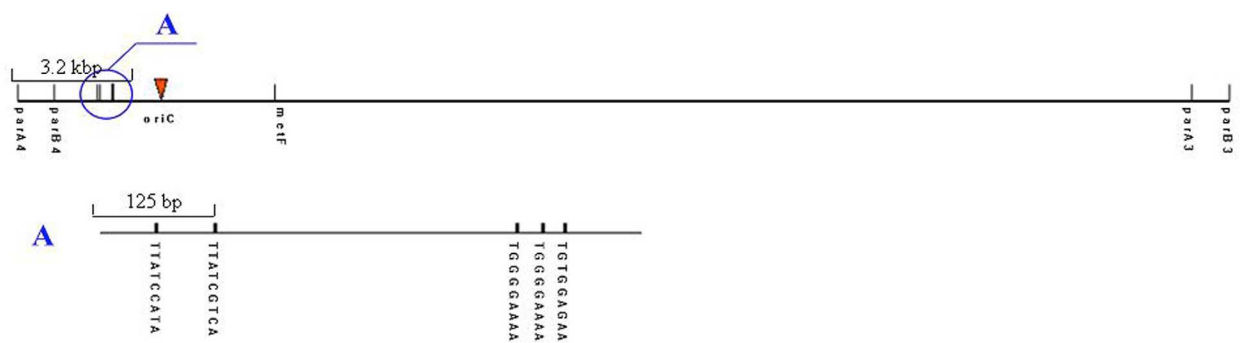
Supplementary information 1: Schematic illustration of the putative replication origins of (a) CI and (b) CII of *L. interrogans* strain Lai.

Chromosomal regions of the putative replication origins for each chromosome flanked by pairs of *parAB* are drawn to their nucleotide scale as indicated. The sequences of putative DnaA boxes are also presented.

(a) Chromosome I (CI: LA4331-LA1928)



(b) Chromosome II (CII: LB365-LB027)



Genes related to the replication origins of CI and CII are listed below:

ID	Strand	Product	Genes
LA4331	F	DNA polymerase III subunit gamma	<i>dnaX1</i>
LA4346	R	ParB-like nuclease domain	<i>parB2</i>
LA4347	R	ParA protein	<i>parA2</i>
LA4348	R	Glucose inhibited division protein B	<i>gidB</i>
LA4359	R	glucose inhibited division protein A	<i>gidA</i>
LA4361	F	DNA polymerase III subunits gamma and tau	<i>dnaX2</i>
LA0001	F	chromosomal replication initiator protein	<i>dnaA</i>
LA0002	F	DNA polymerase III subunit beta	<i>dnaN</i>
LA0003	F		<i>recF</i>
LA0005	F	DNA gyrase subunit B	<i>gyrB1</i>
LA0006	F	DNA gyrase subunit A	<i>gyrA1</i>
LA0175	F	ribosomal protein L34	<i>rpmH</i>
LA0179	F	Jag protein homolog	<i>jag</i>
LA0255	R	ParA family protein	<i>parA5</i>
LA0258	F	DNA polymerase III subunit alpha	<i>dnaE</i>
LA0298	R	heat shock protein DnaJ homolog	<i>dnaJ1</i>
LA0320	F	Thiol-disulfide isomerase and thioredoxins	<i>thiX</i>
LA0655	F	Molecular chaperone DnaJ	<i>dnaJ2</i>
LA1104	R	Molecular chaperone DnaJ	<i>dnaJ3</i>
LA1837	F	ParA family protein	<i>parA1</i>
LA1838	F	Probable chromosome partitioning protein ParB	<i>parB1</i>
LA1928	F	Thioredoxin (TRX)	<i>trxA</i>
LB365	F	ParA protein	<i>parA4</i>
LB366	F	ParB family protein	<i>parB4</i>
LB002	F	methylenetetrahydrofolate reductase	<i>metF</i>
LB026	F	ParA protein	<i>parA3</i>
LB027	F	ParB protein	<i>parB3</i>