

Table S9. Identification and distribution of CRISPR spacers in six *L. interrogans* strains

Strain	Repeat Region	Copy	CRSIPR	Blastn (spacer)	Coverage (%)	Identification (%)	Plasmid match
Langkawi	DR consensus	1	CGCCTAACGGCATCAAAGTT ATATTCAG	<i>Leptospira interrogans</i> serovar Linhai str.56609" plasmid <i>lcp3</i>	81	100	None
	Spacer	2	AAAATCGTTGTTGCGAAATG CGGATCGTTGTTTCAGGTGCT CAA	product = "putative bacteriophage tail fiber protein"			
	DR consensus	4	CGCCTAACGGCATCAAAGTT ATATTCAG	<i>Leptospira interrogans</i> strain FMASAW1 plasmid <i>pLiSL2</i>	81	100	None
	Spacer	1	CTTGAATCGAAGTGTTAGAA ATTGAAAATTTTTTCGGTGCT CAA	product="hypothetical protein"			
	DR consensus	6	CGCCTAACGGCATCAAAGTT ATATTCAG	<i>Leptospira interrogans</i> serovar Linhai str.56609" plasmid <i>lcp3</i> ,	80	100	None
	Spacer	5	TTCGTCAAAGACGAGAGAG TATCTCAAGAGAAGAGTGCT CAA	product="Helix-turn-helix domain containing protein"			
Total CRISPR:16							
782	DR consensus	12	CTGAATATAACTTTGATGCC GTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> serovar Linhai	100	97.14	None

Spacer	1	ATCATGCGAATCCGGTGGG AACGTTGCTGGTTTAT	str.56609"plasmid <i>lcp1</i> , product="putative bacteriophage tail fiber protein"			
DR consensus	12	CTGAATATAACTTTGATG CCGTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> serovar Linhai str.56609" plasmid <i>lcp3</i> ,	100	100	None
Spacer	2	ATCCAAATTGTCCTTTCCCC ATTGCCTGTAGGGAT	product="hypothetical protein"			
DR consensus	12	CTGAATATAACTTTGATGCC GTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> serovar Linhai str.56609"plasmid <i>lcp3</i> ,	100	100	Langkawi: Unitig 15; 1530:
Spacer	3	CAATTGTGATCGGAATCGGT TTCCAAAATTTAAG	product="putative phage replication related protein"			Unitig 62; 782: Unitig 6.
DR consensus	12	CTGAATATAACTTTGATGCC GTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> strain FMAS_AW1 plasmid <i>pLiSL2</i>	100	100	None
Spacer	5	GATGAAACAAAAGTCCCTC GAATTCAAGTGAGGCT	product="hypothetical protein"			
DR consensus	12	CTGAATATAACTTTGATGCC GTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> strain FMAS_AW1 plasmid <i>pLiSL2</i>	100	100	None
Spacer	7	AGGTCCACCCCTTCCTGAGT AGACACAGGCAACGGA	product="hypothetical protein"			
DR consensus	12	CTGAATATAACTTTGATGCC GTTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> serovar Linhai str.56609"plasmid <i>lcp1</i> ,	100	100	None

<b>Total CRISPR:16</b>	Spacer	8	ACAAAAGCAGCATATCTAG ACTTATCCAAAATAGAT	product="hypothetical protein"			
<b>1489</b>	DR consensus	4	GTGCTCAACGCCTAACGGCA TCAAAGTTATATTCAG	<i>Leptospira interrogans</i> serovar Hardjo- prajitno str. Hardjo	100	100	None
	Spacer	3	TCTTCCGAAACGGAAACAC GCCAAGGGTCTATAATTT	product="plasmid replication initiation factor"			
	DR consensus	4	GTGCTCAACGCCTAACGGCA TCAAAGTTATATTCAG	<i>Leptospira interrogans</i> serovar Linhai	100	100	None
	Spacer	8	AGGGGCGCTTTTCCGGGTCC TCATTGTTCTATTTT	str.56609"plasmid <i>lcp1</i> , product="hypothetical protein"			
	DR consensus	4	GTGCTCAACGCCTAACGGCA TCAAAGTTATATTCAG	<i>Leptospira interrogans</i> serovar Linhai	100	94.44	None
	Spacer	9	TTCCAGCATTGGCGGGGAAC CCTCAAGCATTGCAAT	str.56609"plasmid <i>lcp1</i> , product="hypothetical protein"			
<b>Total CRISPR:15</b>	DR consensus	4	GTGCTCAACGCCTAACGGCA TCAAAGTTATATTCAG	<i>Leptospira interrogans</i> serovar Linhai	100	100	None
	Spacer	12	GCGCTGTCGTTTGCGGGCAA GCCGTAAGACCGCAT	str.56609"plasmid <i>lcp1</i> , product="hypothetical protein"			
<b>1548</b>	DR consensus	8	CTGAATATAACTTTGATGCC GGTAGGCGTTGAGCAC	<i>Leptospira interrogans</i> serovar Linhai	100	97.37	None
<b>Total CRISPR:13</b>	Spacer	1	AGTTACTCAAAAATACTCAA TTAGAGGAGTATTGGGGA	str.56609"plasmid <i>lcp3</i> , product="hypothetical protein"			