

Table S3: Description of additional PCR assays conducted in this study, the results of which are summarized in Table 1

PCR set	Targeted gene/ position	Mnemonic PG2 / 5632 ^a	Primer pair	PCR product size (bp) expected in PG2 / 5632	Melting T ^a	PCR designed
Control	<i>p48</i> (Lipoprotein)	MAG0120 / MAGa0140	P48F / P48R	416/416	50°C	In this study
Control	<i>polC</i>	<i>polC/polC</i>	MAPol-1F/ MAPol-5R	265/265	49°C	<i>Microbiology</i> 2005
1	<i>ISMag1</i> position	- / MAGa8240	xerF / phydR	932 / 2463	55°C	<i>J.Bact.</i> 2009
1	<i>ISMag1</i> position	- / MAGa5890	xerF / agpR	0 / 1890	55°C	<i>J.Bact.</i> 2009
1	<i>ISMag1</i> position	- / MAGa5790	Mag2F / pv1R	0 / 2233	55°C	<i>J.Bact.</i> 2009
1	<i>ISMag1</i> position	- / -	Mag2F / agpR	608 / 0	55°C	<i>J.Bact.</i> 2009
1	<i>ISMag1</i> position	- / MAGa5330	pks1F / pks1R2	1084 / 2614	50°C	In this study (detail in Figure 2S panel C)
2	<i>ISMag1</i> position	- / MAGa4500	Bsp6IF / Bsp6IR_5632	3201 / 4512	50°C	In this study (detail in Figure 2S panel B)
3	<i>ISMag1</i>	- / all <i>ISMag1</i> ^b	ISMag1F2 / ISMag1R2	0 / 970	55°C	In this study
3	<i>ISMag2</i>	- / MAGa1590	IS30L / IS30LR	0 / 983	59°C	In this study
3	<i>cds1</i>	- / MAGa2970	cds1F / cds1R	0 / 410	50°C	<i>J Bact</i> 2006
3	<i>cds5</i>	- / MAGa3060	cds5F-cds5R	0 / 214	50°C	In this study
3	<i>cds22</i>	- / MAG3220	cds22F / cds22R	0 / 401	50°C	<i>J Bact</i> 2006
3	<i>bsp6I methylase</i>	- / MAGa4250	bsp6ImR / bsp6ImF	0 / 505	59°C	In this study
4	<i>DNA methylase</i>	- / MAGa2700	Met1F/ Met1R5632	0 / 169	50°C	In this study (detail in Figure 3 panel A)
4	<i>cdsH</i>	- / MAGa3200,5050,6900	cdshF / cdshR	0 / 208	57°C	In this study
5	<i>abiGI-like</i>	- / MAGa8140	aip1F / aip1R	0 / 358	55°C	<i>J Bact</i> 2009
5	<i>abiGI-like and abiGII-like</i>	- / MAGa8140 and MAGa8130	aip2F / aip2R	0 / 1011	55°C	<i>J Bact</i> 2009
5	<i>fic</i>	- / MAGa7460	ficF5632 / ficR	0 / 398	50°C	In this study
5	<i>dcm</i>	- / MAGa3950	dcmF / dcmR	0 / 653	59°C	In this study
6	<i>DNA methylase pseudogene</i>	MAG2550-2560 / -	Met1F/ Met1RpG2	395 / 0	50°C	In this study (detail in Figure 3 panel A)
6	<i>Type III DNA methylase</i>	MAG1530	Met3FPg2 / tigR	2268 / 0	50°C	In this study

^a Mnemonic for CDS of *Mycoplasma agalactiae* strains PG2 and 5632 according to Molligen database at <http://cbi.labri.fr/outils/molligen/>

^b PCR primers matching all 12 copies of *ISMag1* in 5632 genome.