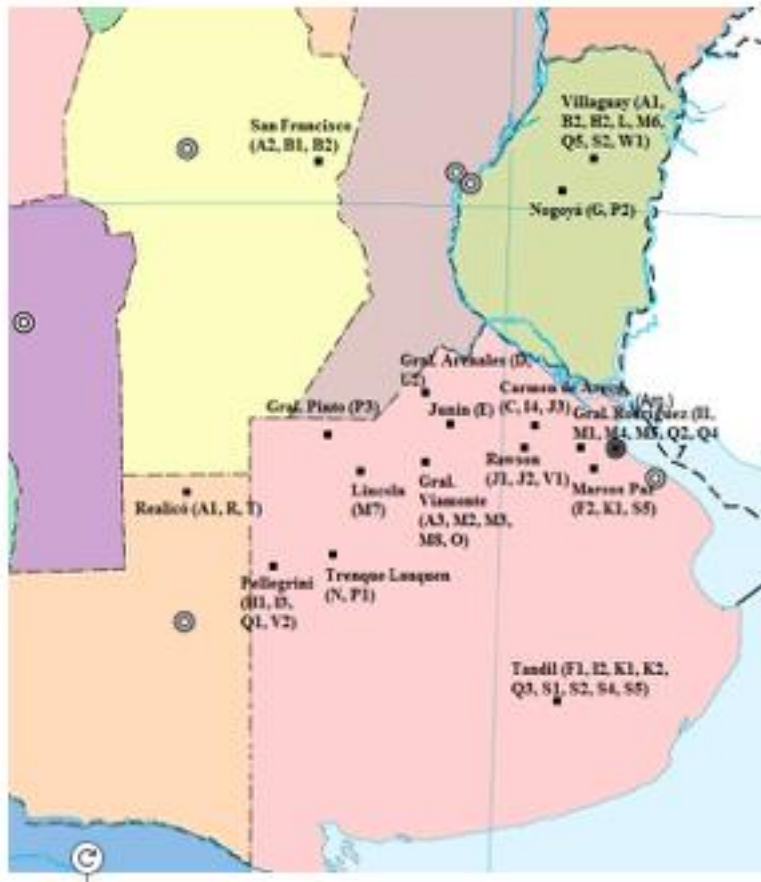


1 Supplementary Tables and Figures

2 **Table S1** Primers and PCR conditions used to detect *nuc*, *pvl* genes and antimicrobial
3 resistance genes.

| Gene | Encoding Protein | Primers sequence | bp | PCR conditions | Reference |
|-------------|--------------------------------|---|-----|--|------------------------------------|
| <i>nuc</i> | Thermonuclease | GCG ATT GAT GGT GAT ACG GTT AGC CAA GCC TTG ACG AAC TAA AGC | 267 | 35 (30 s at 94°C; 30 s at 57°C; 1 min at 72°C) | (Brakstad <i>et al.</i> , 1992) |
| <i>pvl</i> | Panton-Valentine leucocidin | ATC ATT AGG TAA AAT GTC TGG ACA TGA TCC A GCA TCA AST GTA TTG GAT CCA | 433 | 30 (30 s at 94°C; 30 s at 55°C; 1 min at 72°C) | (Lina <i>et al.</i> , 1999) |
| <i>mecA</i> | PBP2a | GTG AAG ATA TAC CAA GTG ATT ATG CGC TAT AGA TTG AAA GGA T | 147 | 30 (30 s at 94°C; 30 s at 57°C; 1 min at 72°C) | (Zhang <i>et al.</i> , 2005) |
| <i>mecC</i> | PBP2a | GCT CCT AAT GCT AAT GCA TAA GCA ATA ATG ACT ACC | 304 | 30 (30 s at 94°C; 30 s at 52°C; 30 s at 72°C) | (Cuny <i>et al.</i> , 2011) |
| <i>blaZ</i> | β-lactamase | ACT TCA ACA CCT GCT GCT TTC GA CCA CTT TTA TCA GCA ACC | 173 | 30 (30 s at 94°C; 30 s at 55°C; 30 s at 72°C) | (Martineau <i>et al.</i> , 2000) |
| <i>ermA</i> | Metiltransferase | CTT CGA TAG TTT ATT AAT ATT AGT TCT AAA AAG CAT GTA AAA GAA | 645 | 30 (1 min at 94°C; 1 min at 54°C; 2 min at 72°C) | (Chung <i>et al.</i> , 1999) |
| <i>ermB</i> | Metiltransferase | AGT AAC GGT ACT TAA ATT GTT TAC GAA AAG GTA CTC AAC CAA ATA | 639 | 35 (1 min at 94°C; 1 min at 50°C; 1 min at 72°C) | Same as <i>ermA</i> |
| <i>ermC</i> | Metiltransferase | GCT AAT ATT GTT TAA ATC GTC AAT TCA AAA CAT AAT ATA GAT AAA | 642 | Same as <i>ermA</i> | Same as <i>ermA</i> |
| <i>lnuA</i> | Inactive enzyme | GGT GGC TGG GGG GTA GAT GTA TTA ACT GG GCT TCT TTT GAA ATA CAT GGT ATT TTT CGA | 323 | 30 (30 s at 94°C; 30 s at 57°C; 1 min at 72°C) | (Lina <i>et al.</i> , 1999) |
| <i>mefA</i> | Eflux pomp | ATG CAG ACC AAA AGC GCG AT CGG TAT CTG TTC TGG TAG CG | 253 | 35 (1 min at 94°C; 1 min at 37°C; 2 min at 72°C) | (Luna <i>et al.</i> , 2000) |
| <i>mrsA</i> | Eflux pomp | GGC ACA ATA AGA GTG TTT AAA GG AAG TTA TAT CAT GAA TAG ATT GTC CTG TT | 940 | 25 (1 min at 94°C; 1 min at 50°C; 1 m 30 s at 72°C) | Same as <i>lnuA</i> |
| <i>mphC</i> | Phosphotransferase | GAG ACT ACC AAG AAG ACC TGA CG CAT ACG CCG ATT CTC CTG AT | 772 | 35 (1 min at 94°C; 1 min at 59°C; 2 min at 72°C) | (Lüthje & Schwarz, 2006) |



5

6 **Fig. S1.** Map of Argentina showing the different cities where the farms were
 7 located and the distribution of the pulsotypes.

8

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