Supplementary Table S1.　Primer sequences

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| primer | sequence | Source |
| *rrgC*-F | GCTCTGTGTTTTTCTCTTGTATGG | Regev-Yochay G, et al. Vaccine 28: 4842-4846, 2010 |
| *rrgC*-R | ATCAATCCGTGGTCGCTTGTTATTTTTA | Regev-Yochay G, et al. Vaccine 28: 4842-4846, 2010 |
| *rrgABC*-NF | TCCCGACGTTTCCAAGTGAG | This study |
| *rrgABC*-NR | CGTACGCTAGCAATTGTACATTATCCTGCA  ACTGCCTTCTGAA | This study |
| *rrgABC*-CF | AATGGACTAATGAAAATGTAAATTTAACTA CAAGCGACCACGGATTGATGTGCC | This study |
| *rrgABC*-CR | GCGCAAGCGTCGAATAATCC | This study |
| Check primer-F | GGACTCAGGGAACTCAAGTGG | This study |
| Check primer-R | GATCTAGAGCTCGAGGATCC | This study |