Obtained fim cluster-deletion mutant carrying pT-COW::ragA promoter with fimA, etc.

**Figure S3**  Complementary introductions of fim-cluster genes into the fim cluster-deletion mutant of *P. gingivalis.*

*FigX-pgmA-fimA, pgmA-fimA, fimX & fimA,* or fimA gene were introduced into fim cluster-deletion mutant of *P. gingivalis.* Small arrows show the primers. *tetQ* confers tetracycline resistance to *P. gingivalis.*