



Figure S5. Characterisation of PGN_1234 mutant

A. Black pigmentation of *P. gingivalis* strains grown 3 days on blood agar. **B.** Hemagglutination assay for *P. gingivalis* strains mixed with defibrinated sheep red blood cells. **C.** Cell surface (cell) and culture supernatant (sup) Rgp and Kgp gingipain proteolytic activities relative the ATCC 33277 wild type strain.