



**Figure S3: The polyacrylamide gels used in the western blot analysis.**

Thirty five micrograms of each *P. gingivalis* whole-cell lysate was loaded onto the SDS polyacrylamide gel. After SDS-PAGE and electro-blotting, these used gels were stained with Coomassie Brilliant Blue to confirm the loading amount of proteins.

Samples from mutant clones A1-B7 were loaded onto Gel 1, E7-D12 onto Gel 2, and #2-130 onto Gel 3. WT, wild-type strain; KO, *fimS* knockout strain AGFS1. The WT and KO signals on the western blots from the gels 2 and 3 were cut off to integrate these three blots in Fig. 4.