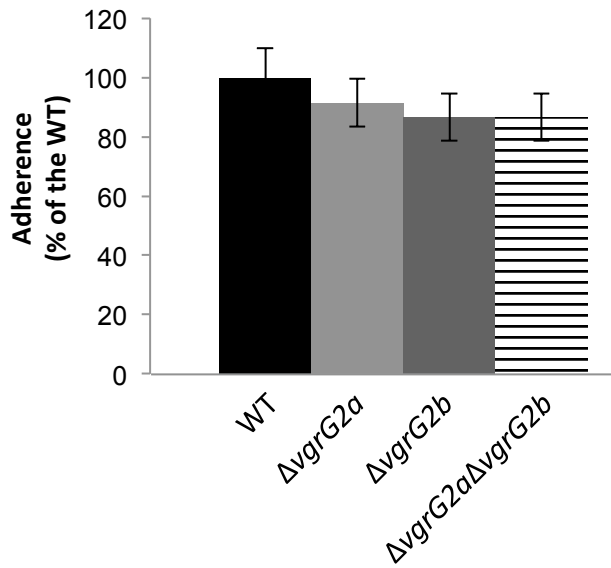
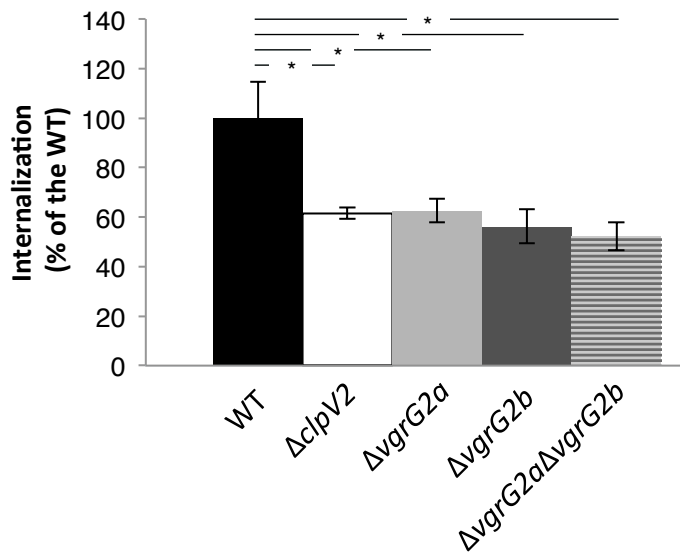


S1A.



S1B.



**Figure S1: Adherence of the PAO1 $\Delta vgrG2a$ , PAO1 $\Delta vgrG2b$ , PAO1 $\Delta vgrG2a\Delta vgrG2b$  mutant strains on HeLa cells (A).** The percent adherence of each mutant strain was normalized to WT PAO1 (black bar). Error bars represent standard deviations. All assays were performed a minimum of three times in triplicate. **Standard bacterial invasion assays in A549 cells upon infection with *P. aeruginosa* strains (B)** grown at the transition between exponential and stationary phases in TSB at 37°C. The percent invasion of PAO1 $\Delta clpV2$ , PAO1 $\Delta vgrG2a$ , PAO1 $\Delta vgrG2b$ , PAO1 $\Delta vgrG2a\Delta vgrG2b$  normalized to the WT PAO1 that represents an average of  $4.8 \times 10^5$  CFUs of internalized bacteria per well ( $2.5 \times 10^5$  A549 cells). Each experiment was performed a minimum of three times in triplicate. The error bars indicate standard deviations. \* means P-values  $\leq 0.05$ .