



S5 Fig. Distribution of FtsZ and PBP2b rings according to filament length. *L. lactis* cells expressing FtsZ-Ve (strain NZ3900 [pGIBLD031]) (A) or Ve-PBP2b (strain NZ3900 [pGIBLD041]) (B) were grown in the presence of methicillin $1 \mu\text{g ml}^{-1}$ to induce filament formation and visualized by optical microscopy. Length (μm , orange bars) and ring number (R=1 to 5, blue bars) of filaments ($n = 62$ and 42 , respectively) were measured from phase contrast and fluorescence images, respectively. Black bar, mean length value for each filament subpopulation separated by increased ring numbers. Microscopy images were analyzed with AxioVision.