



Extended Data Figure 3 | Time course of acoustic reporter gene contrast after induction. **a**, Ultrasound images of *arg1*-expressing *E. coli* at various times after induction with IPTG. Experiment repeated four times with similar results. **b**, Ultrasound contrast at each time point. Data are from four biological replicates; line represents the mean. Cell concentration, 5×10^8 cells ml^{-1} . Scale bar, 2 mm.