



Extended Data Figure 7 | Ultrasound imaging of ARG-expressing cells in the mouse colon. **a**, Transverse ultrasound images of mice whose colon contains BL21 *E. coli* expressing either *arg2* or GFP at a final concentration of 10^9 cells ml^{-1} . A difference heat map of ultrasound contrast within the colon region of interest before and after acoustic collapse is overlaid

on a grayscale anatomical image. **b**, Signal intensity in mice with *E. coli* expressing either *arg2* or GFP. Data are from 5 biological replicates per sample. P value = 0.02 using two-sided heteroscedastic t -test. Scale bar, 2 mm.