

Supplementary Figure 1

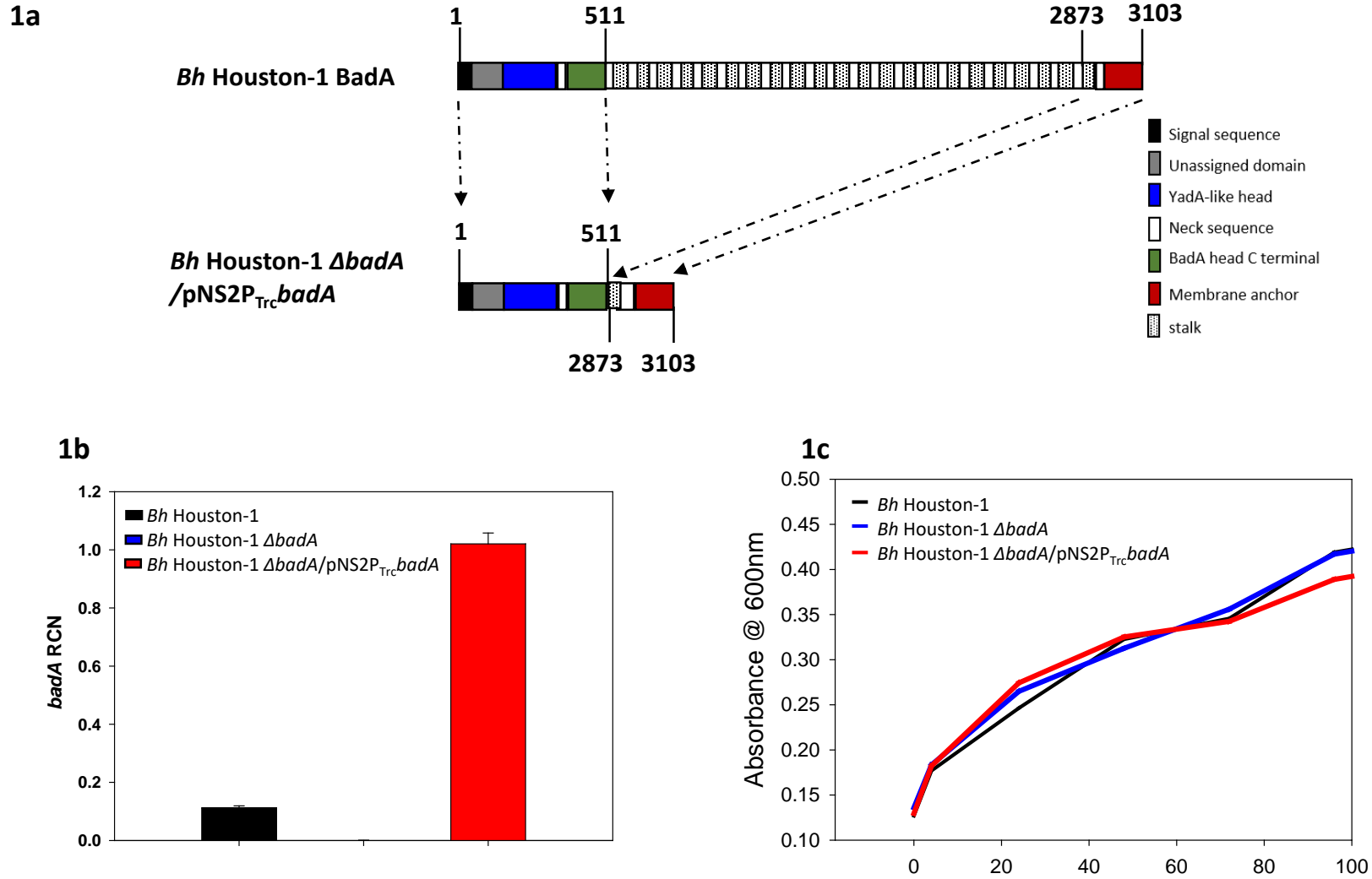


Fig 1a. Schematic diagram of *Bh* Houston-1 Δ *badA*/pNS2Trc*badA*. The partially complemented clone consists of the full head region and the membrane anchor but bears a truncated neck region. The truncated mutant was made by deleting amino acid res. 512-2873 which codes for 22 neck stalk repeats. 1b. qRT-PCR using primers specific to the complemented region of *badA* confirming expression of *badA* in *Bh* Houston-1 and *Bh* Houston-1 Δ *badA*/pNS2Trc*badA*. Error bars represent the standard error of the mean. Data set (n = 3) 1c. Bacteria growth curve using *Bh* Houston-1, *Bh* Houston-1 Δ *badA*, and *Bh* Houston-1 Δ *badA*/pNS2Trc*badA*.

Supplementary Figure 2

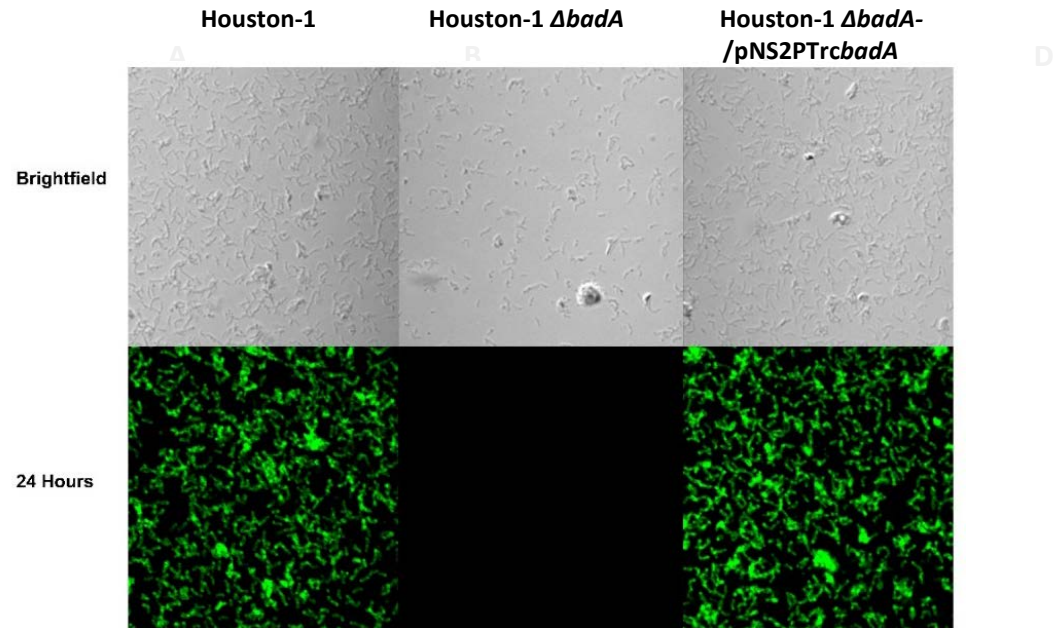


Fig 2. *Bh* Houston-1 $\Delta badA$ /pNS2P_{Trc}*badA* expresses BadA on the surface. Detection of surface expression of BadA on all three strains by immunofluorescence using anti-BadA antibody and a fluorophore conjugated secondary antibody.

Supplementary Figure 3

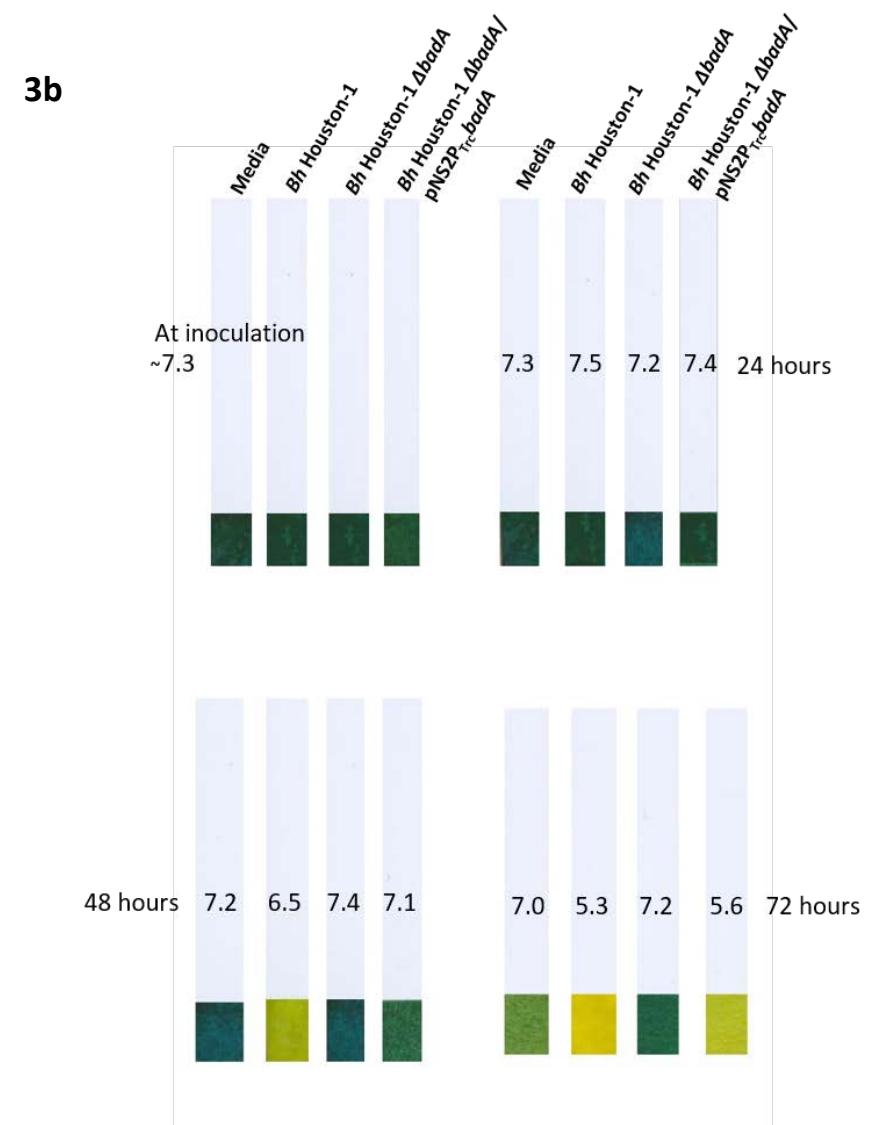
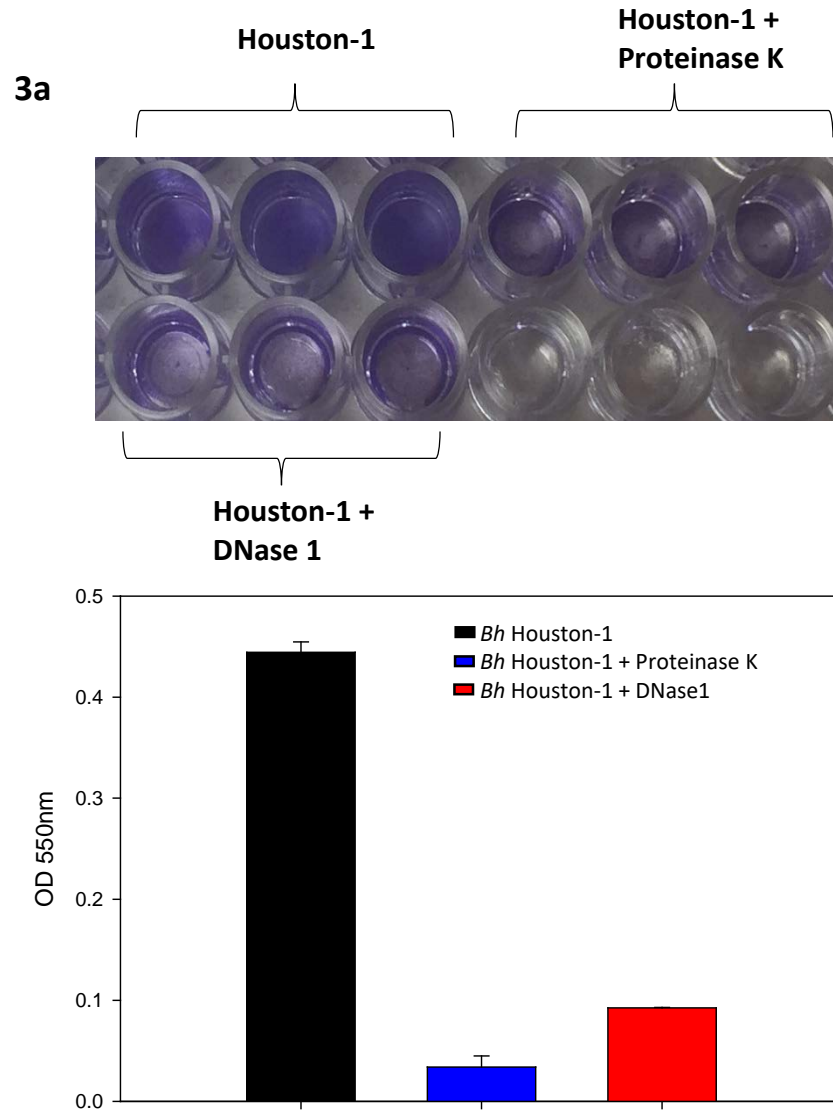


Fig 3. Treatments and pH of a *Bh* biofilm. 3a. Crystal violet biofilm stain and densitometry showing effects of proteinase K and DNase mediated biofilm inhibition on *Bh* biofilm. Results are shown as mean \pm standard error of the mean (n=6). 3b. pH of each strain at inoculation, 24, 48 and 72 hours endpoints. pH values are determined with pH strips (images) and a pH electrode (actual value)