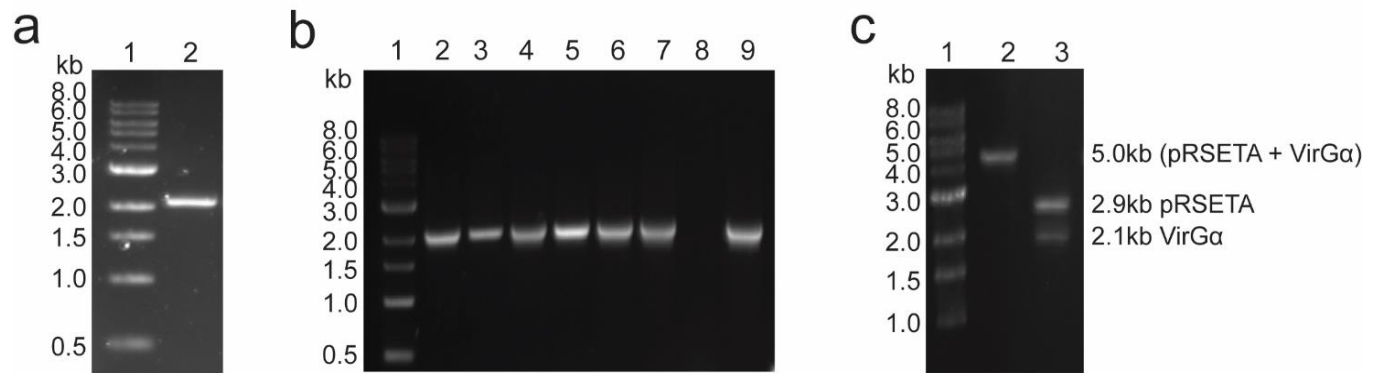
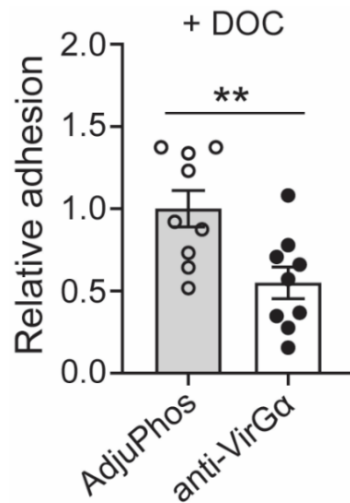


Supplementary Material

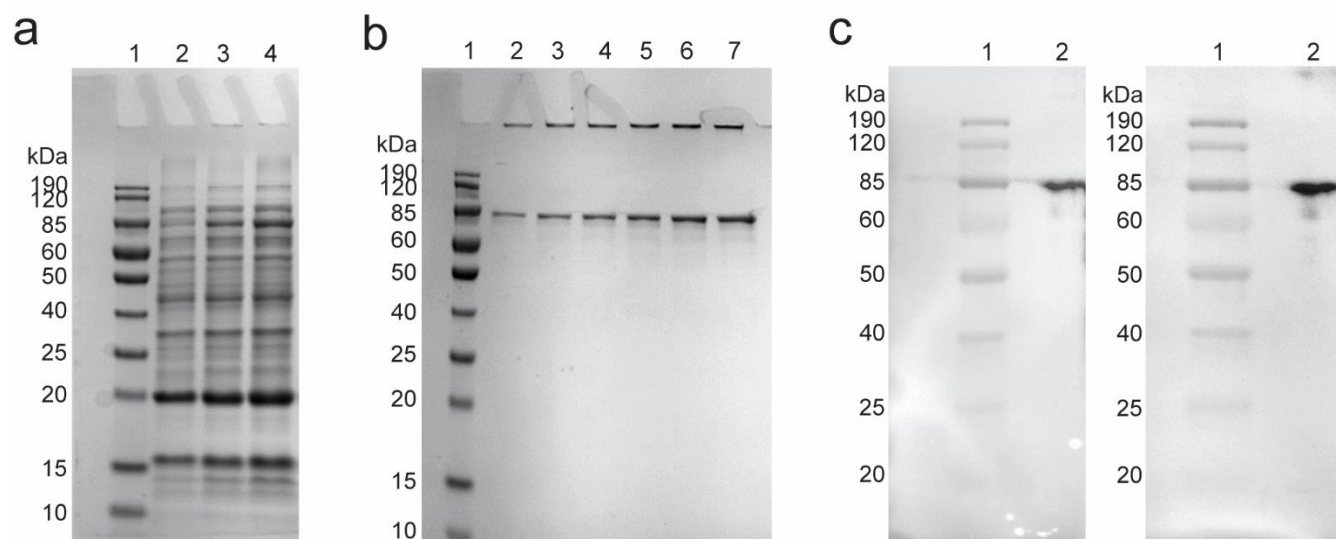


Supplementary Figure 1. Cloning of VirG α . **a** VirG α gene (2.1 kb) was amplified by polymerase chain reaction (PCR) and run in agarose gel: 2.1 kb VirG α gene (lane 2) and 1 kb DNA ladder (lane 1). **b** agarose gel showing the plasmids bearing the 2.1 kb VirG α gene (lanes 2-6 and 9) and colony without VirG α products (lane 8); 1 kb DNA ladder (lane 1). **c** Plasmids carrying VirG α digested with BamHI featuring 5.0 kb band: pRSETA (2.9 kb) containing the 2.1 kb VirG α gene (lane 2) or digested with BamHI and EcoRI featuring two bands: 2.9 kb pRSETA and 2.1 kb VirG α (lane 3). 1 kb DNA ladder (lane 1).



Supplementary Figure 2. VirGα antibodies reduced adherence of *S. sonnei* to human colonoids.

S. sonnei grown in the presence of DOC and pre-incubated with pooled VirGα mouse antisera were added to the basolateral side of human colonoid monolayers as described in Methods. Relative adherence (or adherence rate) of *S. sonnei* in the presence of anti-VirGα sera was determined compared to that of the negative control (sera from mice that received AduPhos® normalized to 1). Assays were performed in at least quadruplicate wells, and two independent experiments were conducted. Data represents mean from replicate wells $\pm$ SEM; ** $p < 0.01$, compared to the AduPhos® control by *t*-test.



Supplementary Figure 3. Images used to generate Fig 1b-d, showing SDS-PAGE gels and Western blot. Uncropped and unprocessed images corresponding to Fig 1b **(a)**, Fig 1c **(b)** and Fig 1d **(c)**.