



Extended Data Figure 2 | Tungstate treatment of mice colonized with *E. coli* K-12. Conventionally raised C57BL/6 mice were treated with 0.2% sodium tungstate, DSS, DSS plus sodium tungstate or left untreated (mock). After four days, animals were inoculated orally with the *E. coli* K-12 wild-type strain and the isogenic *moaA* mutant. C57BL/6 mice with naive microbiota (endogenous Enterobacteriaceae only) or germ-free C57BL/6 mice were treated similarly but were not inoculated with *E. coli* indicator strains. Samples were analysed after a total of nine days of treatment. **a, b**, Schematic representations of the colitis models. **c–h**, Transcription of *Nos2* (**c**), *Tnf* (**d**), *Il6* (**e**), *Lcn2* (**f**) and

Ifng (**h**) in the caecal mucosa was determined by RT-qPCR. *E. coli* K-12: *n* = 6 per group. Endogenous Enterobacteriaceae: mock, *n* = 14; W, *n* = 6; DSS, *n* = 19; DSS+W, *n* = 19. Germ-free: mock, *n* = 5; DSS, *n* = 4; DSS+W, *n* = 5. **i**, Cumulative histopathology score for the colon tissue; mock, *n* = 14; W, *n* = 6; DSS, *n* = 19; DSS+W, *n* = 19; data are shown as mean and s.e.m. and each dot represents one animal. **j**, Colon length, *n* = 8 per group. **k**, Body weight of mice harbouring endogenous Enterobacteriaceae, *n* = 8 per group. **l**, Body weight of mice experimentally colonized with *E. coli* K-12, *n* = 6 per group. Unless otherwise noted, data are shown as geometric mean and geometric s.d.