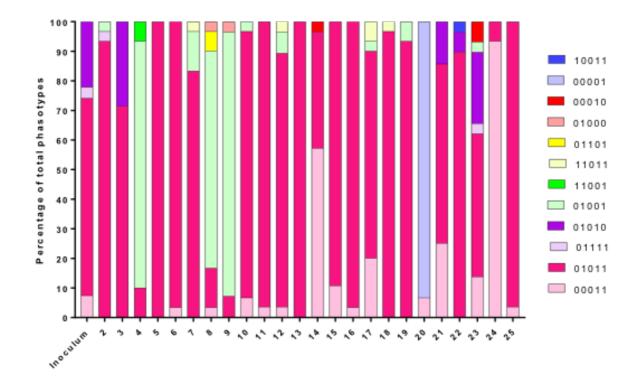
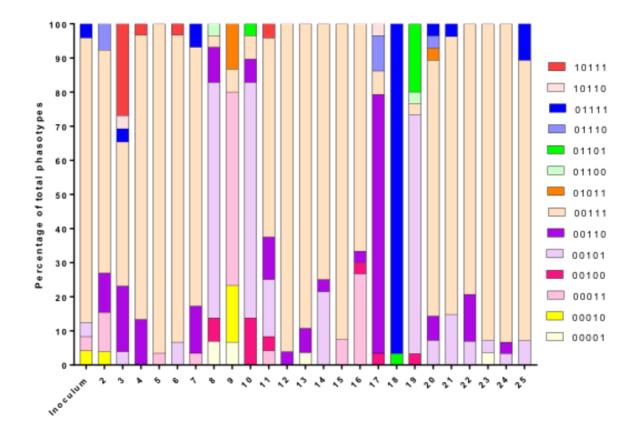
0082 - 0206 - 0590 - 0646 - 0708



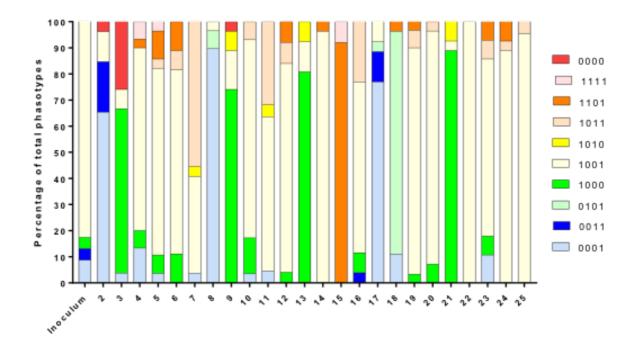
Supplementary Figure 1. Phasotype frequencies for five phase-variable genes (group 2) in all chickens and the gavage. Binary ON/OFF data taken from PSAnalyse are coded 1 for ON, and 0 for OFF. The legend shows the order of the five variable genes coded; *CJJ81176_0082-CJJ81176_0206-CJJ81176_0590-CJJ81176_0646-CJJ81176_0708*. The size of the coloured bars indicates the % of the analysed population made up by that phasotype. Numbers on the x axis refer to specific chickens. The '*CJJ81176*' locus tag is omitted from the figure.

0758 - 0765 - 1321 - 1325 - 1327

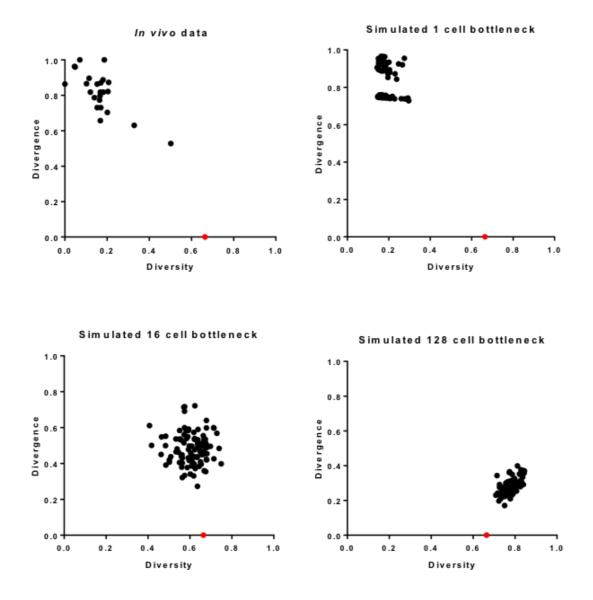


Supplementary Figure 2. Phasotype frequencies for five phase-variable genes (group 3) in all chickens and the gavage. Binary ON/OFF data taken from PSAnalyse are coded 1 for ON, and 0 for OFF. The legend shows the order of the five variable genes coded; *CJJ81176_0758-CJJ81176_0765-CJJ81176_1321-CJJ81176_1325-CJJ81176_1327*. The size of the coloured bars indicates the % of the analysed population made up by that phasotype. Numbers on the x axis refer to specific chickens. The '*CJJ81176*' locus tag is omitted from the figure.

1341 - 1429 - 1432 - 1435

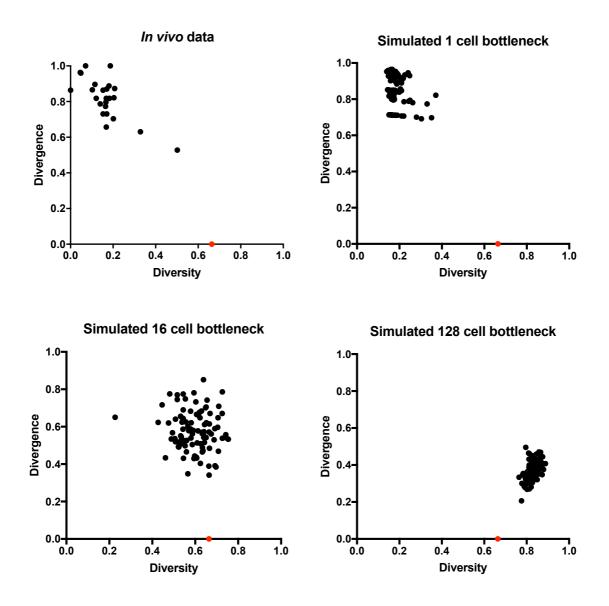


Supplementary Figure 3. Phasotype frequencies for four phase-variable genes (group 4) in all chickens and the gavage. Binary ON/OFF data taken from PSAnalyse are coded 1 for ON, and 0 for OFF. The legend shows the order of the four variable genes coded; *CJJ81176_1341-CJJ81176_1429-CJJ81176_1432-CJJ81176_1435*. The size of the coloured bars indicates the % of the analysed population made up by that phasotype. Numbers on the x axis refer to specific chickens. The '*CJJ81176*' locus tag is omitted from the figure.



Supplementary Figure 4

Diversity scores were calculated using the numbers of colonies with each phasotype for the phasotype composed of the five most variable genes (see Figure 5). *In silico* simulations were performed using a previously published model to determine the effects of bottleneck size on phasotype prevalence in *C. jejuni* populations [11]. The input for the model was the phasotype distribution obtained from the inoculum of the *in vivo* dataset (*in vivo* data panel). The model was run for THREE consecutive bottlenecks with sizes of 1, 16, and 128 cells. The diversity of the input (inoculum) population is shown by a red point on each graph. Numbers on the x axis refer to specific chickens.



Supplementary Figure 5

Diversity scores were calculated using the numbers of colonies with each phasotype for the phasotype composed of the five most variable genes (see Figure 5). *In silico* simulations were performed using a previously published model to determine the effects of bottleneck size on phasotype prevalence in *C. jejuni* populations [11]. The input for the model was the phasotype distribution obtained from the inoculum of the *in vivo* dataset (*in vivo* data panel). The model was run for FIVE consecutive bottlenecks with sizes of 1, 16, and 128 cells. The diversity of the input (inoculum) population is shown by a red point on each graph. Numbers on the x axis refer to specific chickens.