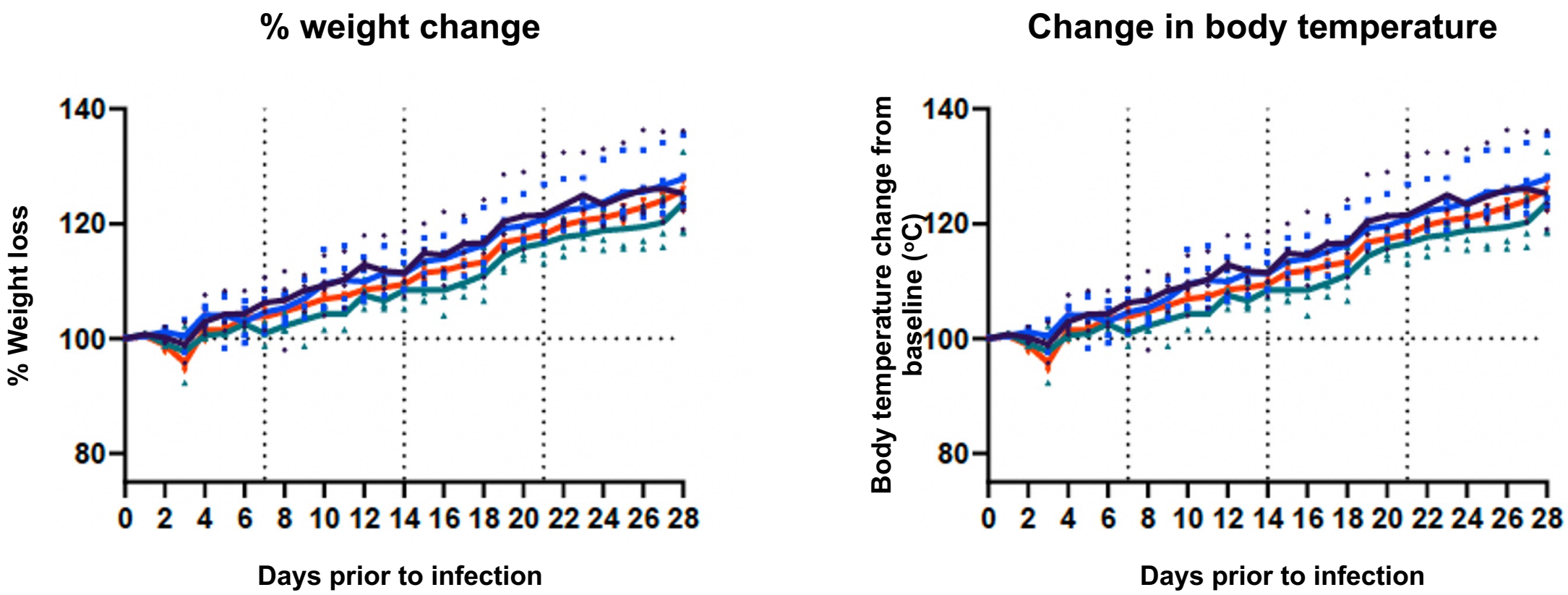



**Supplementary Figure S1. Clinical signs, change in body temperature and weight loss pre-H7N9 infection**

Ferrets were treated with 0.5ml of DSM 32444$^{K}$ or PBS on four separate occasions, 7-days apart. Individual values were plotted per animal and lines indicate the mean values per group sorted by sex. (**left**) weights and (**right**) body temperatures were taken at 1 day prior to intranasal dosing, which was used to assess a baseline, and then daily following dosing with DSM 32444$^{K}$ or PBS until day after which animals were challenged with H7N9. Statistical significance determined using the Holm-Sidak method, with alpha = 0.05. Key: Black line, Control Males; Blue line, Control females; Green line, DSM 32444$^{K}$-treated males; Red line, DSM 32444$^{K}$-treated females.