

**Figure S4** Weight loss of founder mice infected with PR8. Mice were infected with 5 × 10<sup>2</sup> PFU of PR8 and monitored for weight loss for 4 days. Half of the infected animals were sacrificed for expression profiles at day 2 post infection, while the second half were sacrificed at day 4 post infection. There was little weight loss and no discernable strain difference on day 2 post infection. On day 4, NZO had little to no weight loss while all other strains have appreciable weight loss, with most samples showing 10% loss. Half of infected animals were sacrificed for expression profiles at day 2 post-infect while the second half was sacrificed at day 4.