

**Table S1:** Principal outcomes of four O1 Manisa/ O UKG vaccine challenge experiments. Four O1 Manisa/O UKG vaccine challenge experiments were carried out in the bio-security containment facility; Pirbright Labrotary, U.K. Animals in each experiment were assigned with 2 letter identifiers (UV, UY, VD/VE, and VH).

<b>Animal Experiment</b>					<b>No. of Vaccinated carriers by VI+RT-PCR</b>	<b>No of unvaccinated carriers by VI+RT-PCR</b>
<b>Animal I.D.</b>	<b>Vaccine Dose</b>	<b>No. of Vaccinates</b>	<b>No. of unvaccinated controls</b>	<b>Days post vaccine challenge</b>		
UV	1X O1 Manisa	20	5	21	9	2
UY	10x O1 Manisa	20	5	21	3	0
VD/VE	10x O1 Manisa	20	5	10	11	1
VH	1x O1 Manisa	20	5	10	9	2