

Supplementary Table 2. Right Cranial Lung - Statistical Difference from mock-Wuhan

Primary-Secondary	NL63-Wuhan			OC43-Wuhan			Wuhan-Omicron			Wuhan-Beta			Wuhan-Wuhan		
Day PSI	3	6	14	3	6	14	3	6	14	3	6	14	3	6	14
IFN- β	ns	ns	ns	ns	ns	ns	*	ns	ns	ns	****	*	****	**	ns
STAT2	ns	ns	ns	ns	ns	ns	ns	*	ns	ns	*	ns	ns	*	ns
IRF1	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
IRF3	ns	ns	ns	ns	ns	ns	ns	*	ns	*	ns	ns	ns	ns	ns
TLR3	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	*	ns	ns
IRF2	ns	ns	ns	ns	ns	ns	ns	**	ns	*	ns	ns	*	**	ns
STAT1	ns	ns	ns	ns	ns	ns	***	ns	ns	ns	ns	ns	ns	ns	ns
CXCL10	ns	ns	ns	ns	ns	ns	****	*	ns	ns	ns	ns	ns	ns	ns
IFN- γ	ns	ns	ns	ns	ns	ns	**	****	ns	ns	****	ns	ns	****	ns
IL-12	ns	ns	ns	ns	****	ns	ns	ns	ns	ns	ns	*	ns	***	ns
T-bet	ns	ns	ns	ns	ns	ns	**	ns	*	**	ns	ns	*	ns	ns
CD3	ns	ns	ns	ns	ns	ns	ns	ns	ns	***	****	*	**	****	****
IL-2	ns	ns	ns	ns	****	ns	ns	ns	ns	****	ns	*	**	ns	ns
IL-21	ns	ns	ns	ns	*	ns	ns	****	*	ns	****	****	ns	****	****
CXCR5	ns	ns	ns	ns	ns	ns	*	ns	*	ns	ns	*	**	**	**
CD4	ns	ns	ns	ns	ns	ns	ns	***	ns	****	ns	*	***	ns	ns
CD8A	ns	ns	ns	ns	ns	ns	ns	ns	ns	**	***	***	*	*	***
PRF1	ns	ns	ns	*	ns	ns	***	ns	ns	***	ns	ns	***	ns	ns
GZMB	ns	ns	ns	*	ns	ns	****	ns	ns	****	ns	ns	****	ns	ns
GATA-3	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
IL-4	ns	ns	ns	ns	ns	ns	ns	****	ns	ns	**	ns	ns	****	ns
IL-5	ns	ns	ns	ns	ns	ns	ns	ns	****	****	ns	****	**	ns	ns
IL-13	ns	ns	ns	ns	ns	ns	ns	*	ns	**	ns	ns	ns	ns	ns
ROR- γ -T	ns	ns	ns	ns	ns	ns	***	ns	ns	***	ns	ns	*	ns	ns
IL-17	ns	ns	ns	***	ns	ns	ns	**	ns	ns	**	ns	ns	**	ns
IL-22	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
FoxP3	ns	ns	ns	ns	ns	ns	ns	**	ns	**	ns	ns	**	ns	ns
IL-10	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
TGF- β	ns	*	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	*	ns
CD19	ns	ns	ns	ns	ns	ns	ns	ns	***	*	***	ns	ns	ns	***
AID	**	**	ns	ns	ns	ns	*	*	ns	ns	*	ns	***	*	ns
BCL6	*	**	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	**	ns	ns
IL-6	ns	ns	ns	ns	ns	ns	****	*	ns	ns	****	ns	ns	***	*
IL-1 β	ns	ns	ns	ns	ns	ns	ns	**	ns	ns	***	ns	ns	**	ns
TNF	ns	ns	ns	ns	ns	ns	***	****	ns	****	****	ns	****	****	ns