

Supplementary Materials: Co-Infection with Marek's Disease Virus and Reticuloendotheliosis Virus Increases Illness Severity and Reduces Marek's Disease Vaccine Efficacy

Guo-Rong Sun, Yan-Ping Zhang, Lin-Yi Zhou, Hong-Chao Lv, Feng Zhang, Kai Li, Yu-Long Gao, Xiao-Le Qi, Hong-Yu Cui, Yong-Qiang Wang, Li Gao, Qing Pan, Xiao-Mei Wang and Chang-Jun Liu

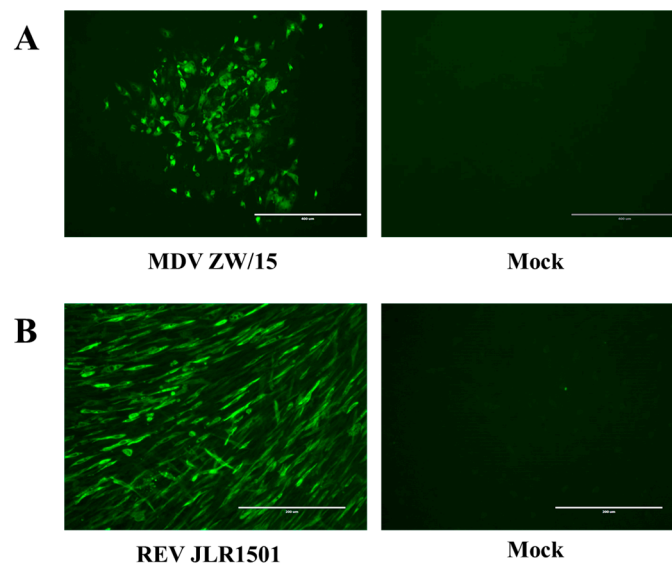


Figure S1. Identification of MDV and REV infection in CEFs by performing IFAs. (A) Viral plaques in CEFs caused by MDV ZW/15 infection were evident using an MDV gE-specific monoclonal antibody. Scale bar: 400 μ m. (B) REV JLR1501 infection in CEFs was observed using an REV gp90-specific monoclonal antibody. Scale bar: 200 μ m.

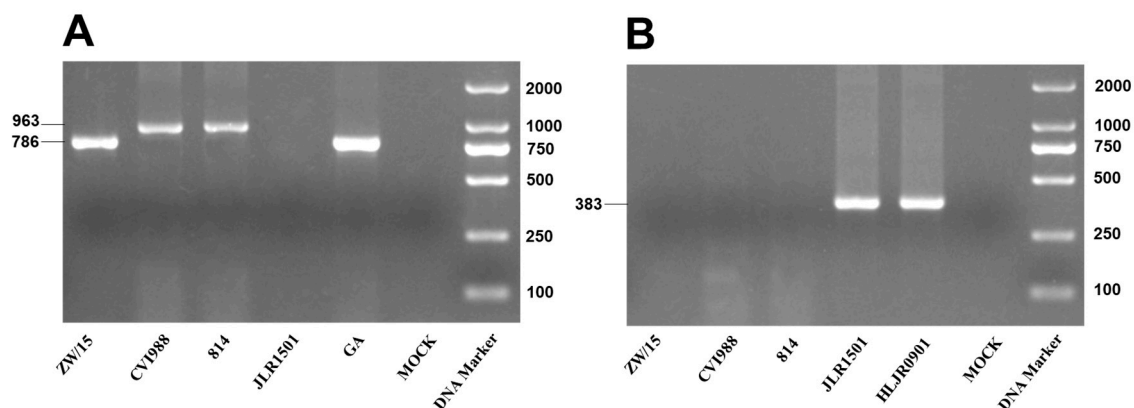


Figure S2. Detection of MDV and REV by PCR. (A) PCR amplifications targeting the MDV meq gene. (B) PCR amplifications targeting the REV ENV gene.

Table S1. Primers used in the PCR amplifications for the detection of MDV and REV.

Target	Sequence	Product (bp)
MDV meq	F: 5'-TTCCCTGACGGCCTATCTGA-3'	786 or 963 ^a
	R: 5'-TTCGGGATCCTCGGTAAGAC-3'	
REV ENV	F: 5'-GCCTTAGCCGCCATTGTA-3'	383
	R: 5'-CCAGCCAACACCACGAACA-3'	

MDV: Marek's disease virus; REV: Reticuloendotheliosis virus. ^a Exact size depends on the MDV strain (some strains have a 177 bp insertion in the *meq* gene).

Table S2. Probes and primers for RT-qPCR.

Target	Probe or primer	Sequence	Accession No.
28S	Probe	5'-(FAM)-GCATGGCTTAATCTTTGAGACAA-(BHQ1)-3'	X59733
	F	5'-ATCCTGCCAGTAGCATATG-3'	
	R	5'-GCCGTGCGTACTTACACGT-3'	
<i>meq</i>	Probe	5'-(FAM)-CGTCTTACCGAGGATCCCAGGATCCCGAACAGG-(BHQ1)-3'	DQ453117.1
	F	5'-GGAGCCGGAGAGGCTTTATG-3'	
	R	5'-ATCTGGCCCGAATACAAGGAA-3'	
<i>pp38</i>	Probe	5'-(FAM)-CGGGGACGCCGAGATGAGC-(BHQ1)-3'	KC511813.1
	F	5'-CGCCTTCCCATCACCTT-3'	
	R	5'-CCGAGGACGGCGAGAAAT-3'	
<i>vIL-8</i>	Probe	5'-(FAM)-CCCCAAGCCAGTAGGCCGATTA-(BHQ1)-3'	HQ638182.1
	F	5'-AATAAACTGCTGTACCCAAGGC-3'	
	R	5'-CTCGCTGTCGGCAAGAGG-3'	
<i>ICP4</i>	Probe	5'-(FAM)-TCCCGACTCGTGCTTTCTGTGC-(BHQ1)-3'	AF147806.2
	F	5'-CTGGGTGGGCTGTAAAATCTG-3'	
	R	5'-GAGGGCGGGAGTAGGGAG-3'	

FAM: 6-Carboxyfluorescein; BHQ1: Black Hole Quencher1.