

Supplemental Experimental Procedures

Table of Clinical Scores on a 7-point scale

SCORE	INITIALS	DESCRIPTION	APPEARANCE	MOBILITY	ATTITUDE
1	H	Healthy	Smooth Coat. Bright Eyes.	Active, Scurrying, Burrowing	Alert
2	SR	Slightly Ruffled	Slightly Ruffled Coat (Usually Only Around Head And Neck)	Active, Scurrying, Burrowing	Alert
3	R	Ruffled	Ruffled Coat Throughout Body. A “Wet” Appearance.	Active, Scurrying, Burrowing	Alert
4	S	Sick	Very Ruffled Coat. Slightly Closed, Inset Eyes.	Walking, But No Scurrying.	Mildly Lethargic
5	VS	Very Sick	Very Ruffled Coat. Closed, Inset Eyes.	Slow To No Movement. Will Return To Upright Position If Put On Its Side.	Extremely Lethargic
6	E	Euthanize	Very Ruffled Coat. Closed, Inset Eyes. Moribund Requiring Humane Euthanasia.	No Movement Or Uncontrollable, Spastic Movements. Will NOT Return To Upright Position If Put On Its Side.	Completely Unaware Or In Noticeable Distress
7	D	Deceased	---	---	---

qRT-PCR Primer Sequences and Cycling Conditions

The primer sequences were as seen in the following table.

	Sequence 5'-3'
Probe	6-FAM-CGGCATAACAGCATCAGGTGCATAGGAG-Tamra-Q
Forward Primer	TTGGTCATGATACTGCTGATTGC
Reverse Primer	CCTTCCACAAAGTCCCTATTGC

Cycling conditions were as follows: 45°C for 15 min, 95°C for 15 min, followed by 50 cycles of 95°C for 15 sec and 60°C for 15 sec and a final extension of 72°C for 30 min. Viral RNA concentration was determined based on an internal standard curve composed of five 100-fold serial dilutions of an *in vitro* transcribed RNA based on ZIKV strain FSS13025.

Enzyme immunohistochemistry

Following deparaffinization, slides were microwaved in Antigen Unmasking Solution (Vector Laboratories). Endogenous peroxidase activity was blocked by incubation in Bloxall (Vector Laboratories), and nonspecific protein binding was blocked by incubation in 10% goat serum. Slides were then incubated in rabbit anti-ZIKV NS2B antibody (Genetex) diluted at 1:100, ImmPRESS HRP anti-rabbit IgG (Vector Laboratories), and NovaRED HRP Substrate (Vector Laboratories). Slides were routinely counterstained with hematoxylin. For each slide, an irrelevant control antibody was performed with Rabbit IgG (Vector Laboratories) substituted for the anti-ZIKV NS2B antibody, and known infected and uninfected controls were included for each batch. A board-certified veterinary pathologist, who was blinded to each slide's experimental conditions, read and scored each slide for immunoreactivity.

Image Acquisition

Bright field imaging was performed with a Zeiss Axio Scan.Z1 microscope and the images were acquired using Zen 2 software (Carl Zeiss).