Supplementary Table S1: Oligonucleotide primers used in the study.

Name	Sequences	Orientation	
For clon PCR*	ing <i>R. rickettsii</i> Adr2 into pET28a plasmid and testing <i>R. ricke</i>	ettssii by	
RG75	5'-tgacg <u>CATATG</u> cttttaatagctgctacaagtgca-3'	Forward	
RG77	5'-tgacgCTCGAGttaaaatcttataccggctgttaagttatg-3'	Reverse	
For clon	ing <i>R. rickettsii</i> OmpB-4 into pET28a plasmid*		
RG78	5'-tgacg <u>CATATG</u> agaggcattccattca-3'	Forward	
	5'-tgacg <u>CATATG</u> agaggcattccattca-3' 5'-tgacg <u>CTCGAG</u> ttagttctgatctacacccg-3'	Forward Reverse	
RG78 RG80 For testi	<u> </u>		
RG80	5'-tgacg <u>CTCGAG</u> ttagttctgatctacacccg-3' ng <i>R. rickettsii</i> by nest PCR		

\*Capital letters with underline refer to sequences inserted for creating restriction enzyme sites. Five nucleotides were also included in the primers at the 5' end to facilitate restriction enzyme site accessibility by restriction enzymes.

#### Supplementary Table S2: Grading scale used in determining the histopathological scores of tissue samples assessed.

### Grading perivascular inflammation

- 0 No perivascular inflammation
- 1 1 cell thick, inflammatory cells around the vessel with no involvement of the vessel wall
- 2 2-3 cell thick, perivascular inflammatory infiltrate, with no involvement of the vessel wall
- 3 More than 3 cell thick, perivascular cuffing

### Grading distribution of inflammation

- 0 Absent
- 1 Focal
- 2 2-4 foci
- 3 Greater than 5

### Nature of inflammation (combination of any of the following)

- L Lymphocytic
- P Plasmocytic
- H Histiocytic
- N Neutrophilic

### Hemorrhage

- 0 Absent
- 1 Present

Grading distribution/severity of non-perivascular inflammatory nodules

- 0 Absent
- 1 Focal
- 2 2-4 foci
- 3 Greater than 5

## Nature of inflammation (combination of any of the following)

- L Lymphocytic
- P Plasmacytic
- H Histiocytic
- N Neutrophilic

### Anatomical distribution (liver)

- Cv Central vein
- Pp Periportal
- R Random

### Intratubular multinuclear giant cells (testicle and epididimus)

- 0 None
- 1 Present

# Supplementary Figure 1

Petechial skin rashes on a ear



### Darkened skin on a testes

