Table S1. Bacterial and yeast strains used in this study.

Strains	Phenotype or Description	References
C. burnetii		
RSA439	Phase II, Clone 4 (NMII)	(18)
RSA439 MK24-33	Cbu0041::Tn, Cm^r	(18)
RSA439 MK25-95	*dotB*::Tn, Cm^r	This study
RSA439 MK21	*icmX*::Tn, Cm^r	(18)
RSA439 MK22	Intergenic Cbu0179-Cbu0180::Tn, Cm^r	This study
RSA439 MK21-1	*enhC*::Tn, Cm^r	This study
RSA 439 MK2 EVS101-CirA	Cbu0041::Tn, Cm^r, pEVS101-CirA	This study
E. coli		
DH5α	*F´(Φ80dΔ(lacZ)M15), recA1, endA1, gyrA96, thi1, hsdR17 (rk-mk+), supE44, relA1, deoR, Δ(lacZYA-argF), U169*	Stratagene
S. cerevisiae		
W303	*MATa ura3-I leu2-3,112 his3-11,15 trpl-1 ade2-1 cad-100 rad5-535*	(18)
W303 pYesNTA-CirA	W303, pYesNTA-CirA	(18)

Table S2. Plasmids used in the study.

Plasmid	Description	References or Source
***C. burnetii* plasmids**		
pKM225	pMW1650, *com1*p-Tn*A7*, *groES*p-mCherry, *com1*p-cat, Cm^R	(18)
pKM244	pJB908a, *groES*p-mCherry, *com1*p-cat, Cm^R, Amp^R	(18)
pEVS101	pJB908a, *groES*p-mCherry, *com1*p-cat, Cm^R, Amp^R, p1169-Kan^R	This study
pEVS101-CirA	pEVS101-CirA	This study
Ectopic expression plasmids		
pRK5-myc-RhoA WT	pRK5-myc::RhoA, $carb^r$	Addgene 12962
pRK5-myc-RhoA CA	pRK5-myc::RhoA Q63L, $carb^r$	Addgene 12964
pRK5-myc-RhoA DN	pRK5-myc::RhoA T19N, $carb^r$	Addgene 12963
pRK5-myc-Rac1 WT	pRK5-myc::Rac1, $carb^r$	Addgene 12985
pEGFP-C1	C-terminal fusion to EGFP, kan^r	Clontech
pEGFPC1-CirA	pEGFP-C1::Cbu0041	(18)
Yeast expression plasmids		
p415ADH	pGal, $carb^R$, Leu2	(27)
P415ADH-Rho1	P415ADH::*rho1*	This study
P415ADH-MRP2	P415ADH::*mrp2*	This study
P415ADH-Met16	P415ADH::*met16*	This study
P415ADH-Nut2	P415ADH::*nut2*	This study
P415ADH-Jip5	P415ADH::*jip5*	This study
pYESNTA	pGal, $Carb^R$, Ura	(18)
pYESNTA-CirA	pYESNTA::CirA	(18)

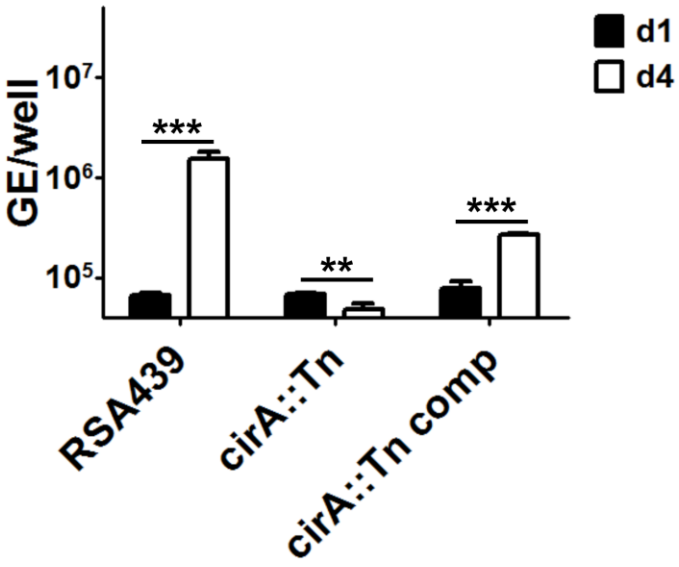

Figure S1. Replication of wild-type RSA439, *cirA*::Tn, and the complemented mutant in J774A.1 macrophages infected with an MOI of 50. Genome equivalents (GE) were determined at 1 d and 4 d using quantitative PCR. Data are representative of two independent experiments.

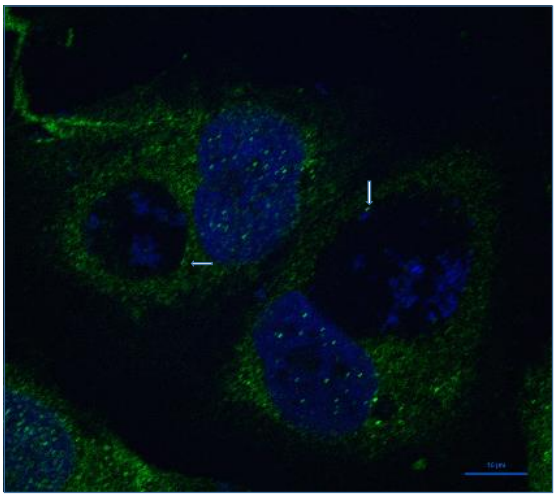

Figure S2. Figure A.2. Localization of endogenous RhoA during *C. burnetii* infection. Vero cells were infected at an MOI of 500 with RSA439 for 5 days and then seeded onto coverslips at a density of 1 x 10^5/mL. 24 hours later coverslips were washed and fixed with 3% formaldehyde

for 10 minutes followed by aldehyde quenching using 50mM ammonium acetate for 10 minutes. Blocking was performed using 0.02% Saponin plus 10% normal horse serum. Anti-RhoA polyclonal rabbit antibody was diluted 1:50 (Pierce) and incubated on the coverslip for 1 hr. After washing the coverslips were incubated with goat anti-rabbit Alexa Fluor 488 (Molecular probe) diluted 1:150 for 1 hr. After washing the coverslips were stained with Hoechst 33258 (Invitrogen) for 10 minutes and then mounted using MOWIOL. Large green puncta localized next to individual *Coxiella* were observed frequently (vertical arrow) and on CCV (horizontal arrow).

Movie S1. Time-lapse video of HeLa cells transiently transfected with EGFP-CirA. Images were captured every 1 m for 30 m.

Movie S2. Time-lapse video of HeLa cells transiently transfected with EGFP. Images were captured every 1 m for 30 m.