

Description of Additional Supplementary Files

File Name: **Supplementary Movie 1**

Description: **Kinetics of CHIKV dissemination and replication in the tissues during concurrent CHIKV+PbA co-infection.** Representative images of bioluminescence signal (CHIKV viral load) in the tissues of CHIKV-infected ($n = 5$) and CHIKV+PbA coinfecting ($n = 6$) mice. All images were taken at 8 min post luciferin injection with exposure setting of 60s.

File Name: **Supplementary Movie 2**

Description: **Kinetics of CHIKV dissemination and replication in the tissues during sequential Py17x (-4 dpi)+CHIKV.** Representative images of bioluminescence signal (CHIKV viral load) in the tissues of CHIKV-infected ($n = 7$) and Py17x (-4 dpi)+CHIKV coinfecting ($n = 5$) mice. All images were taken at 8 min post luciferin injection with exposure setting of 60s.

File Name: **Supplementary Movie 3**

Description: **Kinetics of CHIKV dissemination and replication in the tissues of $LT\alpha^{-/-}$ mice with concurrent CHIKV+PbA co-infection.** Representative images of bioluminescence signal (CHIKV viral load) in the tissues of $LT\alpha^{-/-}$ +CHIKV ($n = 4$) and $LT\alpha^{-/-}$ +CHIKV+PbA coinfecting ($n = 4$) mice. All images were taken at 8 min post luciferin injection with exposure setting of 60s.