Description of Additional Supplementary Files

Supplementary Movie 1: Tkv-GFP presents as puncta in ISCs upon *Ecc15* infection, related to Figure 1. Flies with ISCs overexpressing Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 6 days were orally fed with *Ecc15* for 20 hours before dissection and imaged *ex vivo* at 30s intervals for 45mins. Timelapse indicated as minutes:seconds.

Supplementary Movie 2: Dynamics of Tkv-GFP puncta and Iysosomes in wildtype ISCs under homeostatic conditions, related to Figure 3 and Supplementary Figure 4. ISCs overexpressing Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 7 days were imaged *ex vivo* at 30s intervals for 30mins. Lysosomes were indicated by LysoTracker staining (red). Timelapse indicated as minutes: seconds.

Supplementary Movie 3: Dynamics of Tkv-GFP puncta and Iysosomes in *awd*^{OE} ISCs under homeostatic conditions, related to Figure 3 and Supplementary Figure 4. Flies with ISCs co-expressing *awd*^{OE} and Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 7 days were imaged *ex vivo* at 30s intervals for 30mins. Lysosomes were indicated by LysoTracker staining (red). Timelapse indicated as minutes: seconds.

Supplementary Movie 4: Dynamics of Tkv-GFP puncta and Iysosomes in wildtype ISCs upon *Ecc15* infection, related to Figure 3 and Supplementary Figure 4. Flies with ISCs overexpressing Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 6 days were orally fed with Ecc15 for 20 hours before dissection and imaged ex vivo at 30s intervals for 30mins. Lysosomes were indicated by LysoTracker staining (red). Timelapse indicated as minutes: seconds.

Supplementary Movie 5: Dynamics of Tkv-GFP puncta and Iysosomes in *awd*^{OE} upon *Ecc15* infection, related to Supplementary Figure 4. Flies with ISCs co-expressing *awd*^{OE} and Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 6 days were orally fed with *Ecc15* for 20 hours before dissection and imaged *ex vivo* at 30s intervals for 30mins. Lysosomes were indicated by LysoTracker staining (red). Timelapse indicated as minutes: seconds.

Supplementary Movie 6: Dynamics of Tkv-GFP puncta and Iysosomes in *awd*^{RNAi} upon *Ecc15* infection, related to Figure 3 and Supplementary Figure 4. Flies with ISCs coexpressing *awd*^{RNAi} and Tkv-GFP (esgG4, Su(H)GBEG80, tubG80^{ts}, green) for 6 days were orally fed with *Ecc15* for 20 hours before dissection and imaged *ex vivo* at 30s intervals for 30mins. Lysosomes were indicated by LysoTracker staining (red). Timelapse indicated as minutes: seconds.