Supplementary Figure 1. Immunophenotyping of *Mtg16*$^{-/-}$ colons at baseline. (*A*) Immunophenotyping using flow cytometry of WT or *Mtg16*$^{-/-}$ colons [WT (N=6) or *Mtg16*$^{-/-}$ (N=6) colons]. (*B*) Multianalyte profiling using the Luminex platform demonstrating increased IL-17, IL-4, and MIP-1β in *Mtg16*$^{-/-}$ colons.

Supplementary Figure 2. Mtg16 expression is diminished by either DSS or *C. rodentium* mediated colitis. qRT PCR performed on control [N=7 (DSS) or 9 (*C. Rodentium*)] or injured colons from WT mice treated with either (A) DSS (N=9) or (*B*) *C. rodentium* infection (N=9). $P<0.0001$

Supplementary Figure 3. Immunophenotyping of *Mtg16*$^{-/-}$ colons after 4 days of DSS treatment. (*A*) Immunophenotyping using flow cytometry of WT or *Mtg16*$^{-/-}$ colons (WT (n=6) or *Mtg16*$^{-/-}$ (n=6) colons). (*B*) Multianalyte profiling using the Luminex platform demonstrating increased IL-17, IL-4, and MIP-1β in *Mtg16*$^{-/-}$ colons.

Supplementary Figure 4. Transmission electron microscopy of *Mtg16*$^{-/-}$ or WT colons. Arrowhead indicates apical junctional complexes.