

## SUPPLEMENTAL MATERIAL

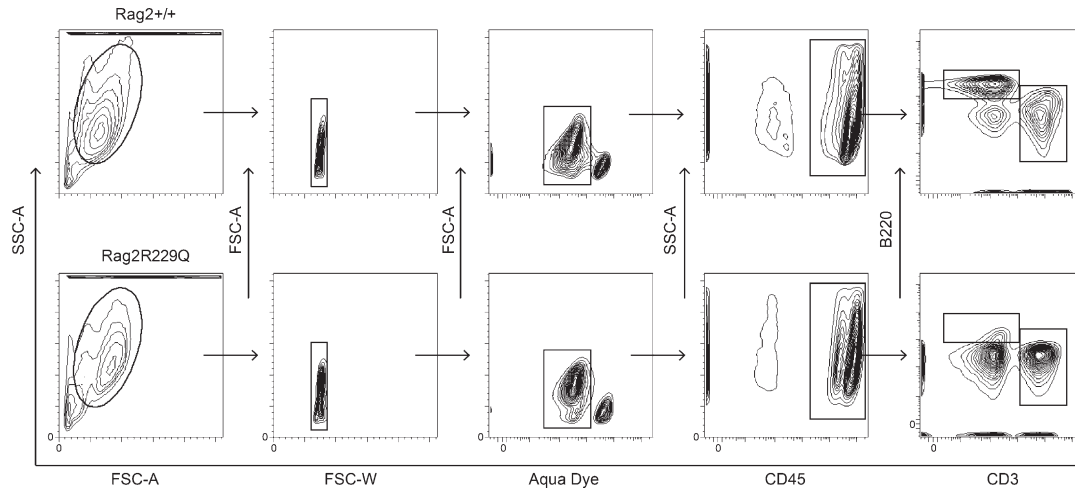
Rigoni et al, <http://www.jem.org/cgi/content/full/jem.20151116/DC1>

Figure S1. Representative gating strategy to identify CD3<sup>+</sup> T cells and B220<sup>+</sup> B cells in the intestinal LP of *Rag2*<sup>+/+</sup> and *Rag2*<sup>R229Q</sup>. Doublet exclusion (FSC-W vs. FSC-A) and live cell identification were performed (aqua dye vs. FSC-A). Cells were then gated on a CD45<sup>+</sup> population to identify lymphocytes.

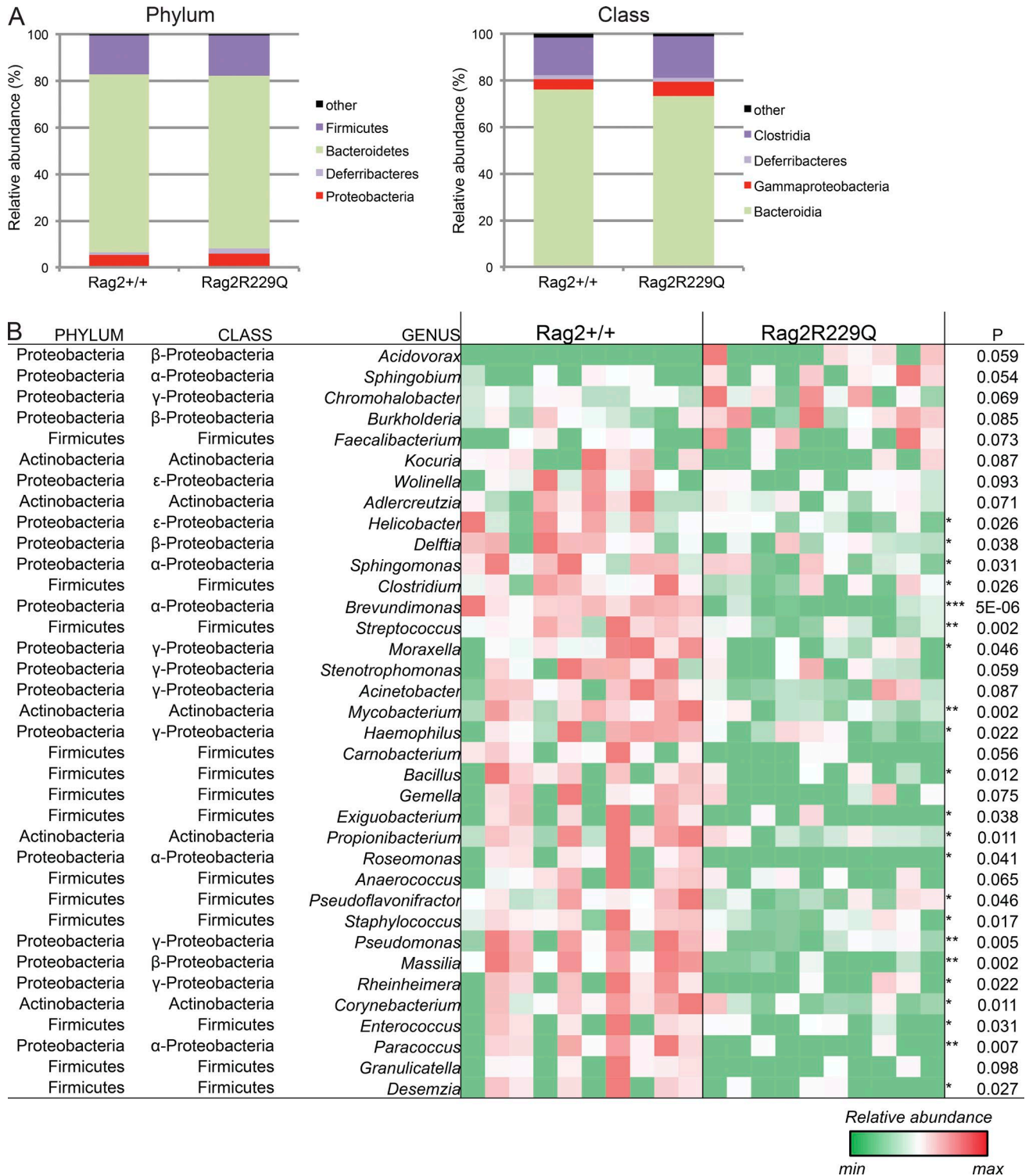


Figure S2. **Analysis of microbiota composition.** (A) Relative abundance of intestinal microbiota at class and phylum level in *Rag2*<sup>+/+</sup> and *Rag2*<sup>R229Q</sup> mice. (B) Heat map of bacterial genera in the gut microbiota that discriminate *Rag2*<sup>R229Q</sup> from *Rag2*<sup>+/+</sup> mice with a cutoff of P < 0.1. Each line represents one genus; each column represents an individual mouse; color represents the difference between *Rag2*<sup>+/+</sup> and *Rag2*<sup>R229Q</sup> littermates, green indicating lower and red higher expression. P-values are according to two-tailed unpaired Student's *t* test. \*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001.

Table S1. List of primers used in this study

Gene	Sequence or assay number
<b>SYBR green primers</b>	
Actb for	5'-CTAAGGCCAACCGTAAAAAG-3'
Actb rev	5'-ACCAGAGGCATACAGGGACA-3'
IL-17A for	5'-TCCAGAAGGCCCTCAGACTA-3'
IL-17A rev	5'-TGAGCTTCCCAGATCACAGA-3'
IFN- $\gamma$ for	5'-TCAAGTGGCATAGATGTGGAAGAA-3'
IFN- $\gamma$ rev	5'-TGGCTCTGCAGGATTTTCATG-3'
IL-22 for	5'-TGACCACCAGAACATCCAGA-3'
IL-22 rev	5'-AATCGCCTTGATCTCTCCAC-3'
IL-10 for	5'-GGTTGCCAAGCCTTATCGGA-3'
IL-10 rev	5'-ACCTGCTCCACTGCCTTGCT-3'
IL-6 for	5'-GTAGCTATGGTACTCCAGAAGAC-3'
IL-6 rev	5'-ACGATGATGCACCTTGAGAA-3'
TNF for	5'-GACGTGGAAGTGGCAGAAGAG-3'
TNF rev	5'-TTGGTGGTTTGTGAGTGTGAG-3'
RegIII $\gamma$ for	5'-TTCCTGTCTCCATGATCAAAA-3'
RegIII $\gamma$ rev	5'-CATCCACCTCTGTTGGTTCA-3'
IL-1 $\beta$ for	5'-GCCCATCCTCTGTGACTCAT-3'
IL-1 $\beta$ rev	5'-AGGCCACAGGTATTTTGTGC-3'
CCL2 for	5'-CTGGATCGGAACCAAATGAG-3'
CCL2 rev	5'-AAGGCATCACAGTCCGAGTC-3'
CCL20 for	5'-AACTGGTGAAAAGGGTGT-3'
CCL20 rev	5'-GTCCAATTCCATCCCAAAA-3'
CXCL10 for	5'-GCTGCCGTCATTTTCTGC-3'
CXCL10 rev	5'-TCTCACTGGCCGTCATC-3'
CXCL9 for	5'-CTTTTCTCTTGGGCATCAT-3'
CXCL9 rev	5'-GCATCGTGCAATTCCTTATCA-3'
CCL5 for	5'-GTGCCACGTC AAGGGTAT-3'
CCL5 rev	5'-CCCACTTCTTCTCTCTGGGTTG-3'
CCL25 for	5'-GAGTGCCACCCCTAGGTCATC-3'
CCL25 rev	5'-CCAGCTGGTGCTTACTCTGA-3'
16s for	5'-GTGSTGCAYGGYGTCTCGTCA-3'
16s rev	5'-ACGTCRTCCMCACCTTCTCTC-3'
18s for	5'-CTCAACACGGGAAACCTCCTCAC-3'
18s rev	5'-CGTCCACCACTAAGAAGG-3'
IL-4 for	5'-CATCGGCATTTTGAACGAG-3'
IL-4 rev	5'-CGAGCTCACTCTCTGTGGTG-3'
IL-23p19 for	5'-AGCCAGTTCTGCTTGCAAAGG-3'
IL-23p19 rev	5'-GGAGGTTGTGAAGTTGCTCCATG-3'
TGF- $\beta$ for	5'-TGGAGCAACATGTGGAATC-3'
TGF- $\beta$ rev	5'-GTCAGCAGCCGTTACCA-3'
IL-12p35 for	5'-CTATCTGAGCTCCGCCTGAAAG-3'
IL-12p35 rev	5'-GGCCAAGACCACCTGACTCTTA-3'
<b>TaqMan probes</b>	
Actb	Mm00607939_s1
Rorc	Mm01261022_m1
Tbx21	Mm00450960_m1