

## Supplementary materials

Table S1. Definition of categories and general criteria for histomorphological scoring.

CATEGORY	CRITERION	DEFINITION	SCORE VALUE <sup>1</sup>
Inflammatory Cell Infiltrate	Severity	Neutrophil density (per ten 400x high-power fields; field diameter of 0.45 mm): 0 = No neutrophils 1 = 1 or 2 neutrophils 2 = 3 - 5 neutrophils 3 = >5 neutrophils	0 1 2 3
	Extent	Extent of inflammatory cell infiltration: Mucosal Mucosal and submucosal Mucosal, submucosal, and transmural	0.5 1 1.5
Epithelial Changes <sup>2</sup>	Hyperplasia	Percent above height of control/baseline crypt (0.2 mm); visible as crypt elongation: No change: 0 Mild: 1- 50% Moderate: 51-100% Marked: >100%	0 1 2 3
	Goblet Cell Count	Change in goblet cell numbers relative to baseline goblet cell numbers per crypt: 0 = No change from baseline goblet cell count 1 = Increase or decrease of 1-3 goblet cells from baseline 2 = Increase or decrease of 4-8 goblet cells from baseline 3 = Increase or decrease of 8 or more goblet cells from baseline	0 1 2 3
	Erosion	Loss of surface epithelium: 0 = No pathological changes observed 1= Attenuation (gaps of 1-10 epithelial cells/lesion) 1.5 = Absence of epithelium (gaps of >10 epithelial cells/lesion)	0 1 1.5
	Dysplasia	Ordered arrangement of crypt epithelial cells & crypt epithelial cell nuclei; loss of epithelial polarity Mild: Mostly ordered arrangement, nuclei are in basal location Moderate: Slightly disordered arrangement, some nuclei are near/in apical location Severe: Disordered arrangement, nuclei are in apical location	0 1 2
Mucosal Architecture	Crypt Loss	Mucosa devoid of crypts	1

<sup>1</sup>Score Value Max = 15 points; <sup>2</sup>From well-oriented samples with longitudinally cut crypts only; Modified from Erben *et al.* (2014) and Bischor *et al.* (2017).

Table S2. Disease Activity Index (DAI) scoring criteria modified from Maxwell *et al.* (2009).

<b>DISEASE ACTIVITY INDEX (DAI)</b>			
<b>Stool Consistency</b>	<b>Stool Blood</b>	<b>Body Weight Loss (%)<sup>a</sup></b>	<b>Score</b>
Normal	Normal	0-1 %	0
Moist and Sticky	Brown/Reddish Colour	1-5 %	1
Soft	Visible Blood	5-10 %	2 <sup>b</sup>
Diarrhea	Rectal Bleeding	10-20 % <sup>c</sup>	3

<sup>a</sup> % Body Weight Loss =  $\frac{(\text{Body Weight on Day X} - \text{Initial Body Weight})}{\text{Initial Body Weight}} \times 100$

<sup>b</sup> If a mouse scores  $\geq 2$  in any of the above criteria, supportive therapy must be initiated, and monitoring increased to 4 times per day.

<sup>c</sup> If a mouse scores  $\geq 20\%$  body weight loss, it will be euthanized.

Table S3. Primer sequences used for RT-qPCR analysis.

GENE	FORWARD (5' - 3')	REVERSE (5' - 3')	EFFICIENCY (%)
<b><math>\beta</math>-Actin</b>	CTTCTTTGCAGCTCCTTCGTT	TTCTGACCCATTCCCACCA	96.2
<b>GAPDH</b>	CCTCGTCCCGTAGACAAAATG	TGAAGGGGTCGTTGATGGC	92.7
<b>Muc1</b>	GGCATTTCGGGCTCCTTTCTT	TGGAGTGGTAGTCGATGCTAAG	103.1
<b>Muc2</b>	AGGGCTCGGAACTCCAGAAA	CCAGGGAATCGGTAGACATCG	105.5
<b>Reg3<math>\beta</math></b>	ACTCCCTGAAGAATATACCCTCC	CGCTATTGAGCACAGATACGAG	102.1
<b>Reg3<math>\gamma</math></b>	ATGCTTCCCGTATAACCATCA	GGCCATATCTGCATCATACCAG	98.2
<b>sPLA2</b>	TGGCTCAATACAGGACCAAGG	GTGGCATCCATAGAAGGCATAG	99.7
<b>BAX</b>	TGAAGACAGGGGCCTTTTGTG	AATTCGCCGGAGACACTCG	101.2
<b>BCL3</b>	CCGGAGGCCCTTTACTACCA	GGAGTAGGGGTGAGTAGGCAG	104.4
<b>EGR1</b>	AGACGAGTTATCCCAGCCAAA	GGTCGGAGGATTGGTCATGC	105.7
<b>TLR6</b>	TGAGCCAAGACAGAAAACCCA	GGGACATGAGTAAGGTTCTGTGTT	100.9
<b>TLR2</b>	GCAAACGCTGTTCTGCTCAG	AGGCGTCTCCCTCTATTGTATT	102.0
<b>SOCS3</b>	ATGGTCACCCACAGCAAGTTT	TCCAGTAGAATCCGCTCTCCT	105.2
<b>VCAM-1</b>	AGTTGGGGATTTCGGTTGTTCT	CCCCTCATTCTTACCACCC	96.5
<b>HIF1<math>\alpha</math></b>	ACCTTCATCGGAACTCCAAAAG	ACTGTTAGGCTCAGGTGAACT	106.5
<b>Camp</b>	GCTGTGGCGGTCACTATCAC	TGTCTAGGGACTGCTGGTTGA	102.0
<b>ANG4</b>	GGTTGTGATTCTCCTCAACTCTG	CTGAAGTTTTCTCCATAAGGGCT	102.1
<b>IRF7</b>	ATGCCAATCACTCGAATGAG	TTGTATCGGCCTGTGTGAATG	96.8
<b>CASP1</b>	CTTGAGACATCCTGTCAGGG	AGTCACAAGACCAGGCATATTCT	106.3