

S1 Table. Test of effect of the *Pde4b* genotype on the number of adenomas in the small intestine of *Apc^{Min/+}* mice over a series of backcross-intercross generations. Gross tumor numbers were measured in the small intestines of *Apc^{Min/+}* mice from the series of backcross-intercross generations, carrying the *Pde4b^{+/+}*, *Pde4b^{+/-}* and *Pde4b^{-/-}* genotypes.

Genotype	Small intestinal tumor counts, mean \pm SD (n of mice)		
	<i>Apc^{Min/+} Pde4b^{+/+}</i>	<i>Apc^{Min/+} Pde4b^{+/-}</i>	<i>Apc^{Min/+} Pde4b^{-/-}</i>
F2	78.5 \pm 32.4 (6)	81.8 \pm 32.1 (13)	66.7 \pm 24.0 (6)
N2F2	87.0 \pm 34.1 (46)	93.5 \pm 42.9 (86)	92.4 \pm 41.0 (31)
N3F2	107.2 \pm 28.6 (23)	117.5 \pm 33.8 (27)	125.3 \pm 36.2 (9)
N4F2	111.7 \pm 43.7 (9)	125.9 \pm 46.9 (15)	103.1 \pm 35.7 (8)