

**Table S3. EC counting data****A. Notch4 gain-of-function**

Total EC #

ss	control	int3 mut
pair1	615	678
pair2	666	633
pair3	747	798
pair4	625	642
pair5	675	583
mean*	665.6	666.8
SD*	52.3	80.8

Average EC # in each section (10 um frozen section)

	control (# of sections)	int3 mut (# of sections)
	51.3 (12)	56.5 (12)
	74.0 (9)	70.3 (9)
	93.4 (8)	99.8 (8)
	69.4 (9)	71.3 (9)
	56.3 (12)	48.8 (12)
mean	68.9	69.3
SD	16.5	19.5

**B. Notch1 loss-of-function**

Total EC #

	control	N1KO
pair1	245	223
pair2	82	91
pair3	578	568
pair4	431	503
mean*	334.0	346.3
SD*	216.3	226.6

Average EC # in each section (10 um frozen section)

	control (# of sections)	N1KO (# of sections)
	37.2 (6)	40.8 (6)
	35.5 (2)	23.5 (2)
	56.8 (10)	57.8 (10)
	62.5 (9)	53.9 (9)
mean	48.0	44.0
SD	13.7	15.5

**C. Efnb2 loss-of-function**

Total EC #

	control	ephrin B2KO
pair1	650	516
pair2	684	516
pair3	788	682
mean*	707.3	571.3
SD*	71.9	95.8

Average EC # in each section (5 um paraffin section)

	control (# of sections)	ephrin B2KO (# of sections)
	50.0 (13)	39.7 (13)
	52.6 (13)	39.7 (13)
	49.1 (13)	52.5 (13)
mean	50.6	43.9
SD	1.8	7.4

\*Calculated mean and SD cannot be applied as each pair analyzed has a different number of sections.  
 Calculations must be limited to comparisons between the mutant and control within the pair only.