

**Table S1. Average percentage ( $\pm$ s.d.) of mammary epithelial cells showing marker expression/co-expression at 10 weeks of age according to genotype**

Marker	Genotype									
	Wild type		<i>MMTV-SmoM2/+</i>		<i>P</i> <sup>†</sup>	Wild type		$\Delta$ <i>Ptch1/+</i>		<i>P</i> <sup>†</sup>
	<i>n</i>	%*	<i>n</i>	%*		<i>n</i>	%*	<i>n</i>	%*	
SMO	15	0.0 (0.0-0.0)	8	5.7 (3.3-6.5)	<0.01	5	0.0 (0.0-0.0)	5	0.0 (0.0-0.0)	–
BrdU <sup>‡</sup>	15	0.6 (0.2-1.2)	9	4.4 (2.3-10.1)	0.02	6	0.7 (0.6-0.8)	5	11.3 (7.5-11.7)	0.02
Ki67	4	6.2 (4.4-8.5)	6	31.3 (28.4-36.1)	0.04		ND		ND	–
Casp-3	6	0.1 (0.0-0.4)	6	0.5 (0.2-1.0)	0.35	5	0.6 (0.4-0.8)	7	0.0 (0.0-0.8)	0.33
ER	12	32.9 (29.2-42.1)	6	33.0 (24.1-40.9)	0.75	5	30.7 (27.5-32.7)	4	26.7 (21.7-33.8)	0.42
PR	12	38.8 (27.7-41.8)	6	29.8 (24.8-34.4)	0.34	5	26.0 (23.1-33.2)	5	29.2 (24.7-39.0)	0.69
CK6	8	7.5 (5.6-9.0)	8	18.4 (12.6-25.9)	0.01	4	0.0 (0.0-0.2)	7	0.0 (0.0-0.0)	0.89
ER-Ki67	4	0.0 (0.0-0.0)	6	1.0 (1.0-1.0)	0.05		ND		ND	–
ER-CK6	6	7.0 (5.8-8.2)	5	14.2 (11.0-14.2)	0.06		ND		ND	–
SMO-Ki67	5	0.0 (0.0-0.0)	5	0.0 (0.0-0.0)	–		ND		ND	–
SMO-ER	5	0.0 (0.0-0.0)	5	0.0 (0.0-0.0)	–		ND		ND	–
SMO-CK6	5	0.0 (0.0-0.0)	5	0.0 (0.0-0.0)	–		ND		ND	–

ND, not done.

\*Shown as median (interquartile range).

<sup>†</sup>*P* values are based on the Wilcoxon rank-sum test.

<sup>‡</sup>BrdU incorporation.