

Supplementary table 1. Papilloma incidence sorted according to size in congenic lines

	Papilloma number			P-value	
	FVB/FVB- (4a)+(4b)	MSM/FVB- (4a)	MSM/FVB- (4b)	FVB/FVB- (4a)+(4b) MSM/FVB- (4a)	FVB/FVB- (4a)+(4b) MSM/FVB- (4b)
≤6 mm	28.6 ± 8.26	27.7 ± 11.2	18.0 ± 14.6	0.444	0.0445 *
>6 mm	4.9 ± 5.24	7.0 ± 6.1	0.13 ± 0.34	0.297	0.000650 **
Total	33.4 ± 11.3	34.7 ± 8.1	18.1 ± 14.6	0.435	0.0114 *

**...p<0.01 * ...p<0.05

P-value is from standard *t*-test.

Supplementary table 2. Microsatellite markers used for allelic imbalance analysis

Marker	Map position (cM)	Map position (bp)	MSM allele loss or FVB allele gain (%)	FVB allele loss or MSM allele gain (%)
<i>D4Mit17</i>	31.4	63026328 - 63026475	0	0
<i>D4Mit1003</i>	-	81330391 - 81330519	36.4	4.5
<i>D4Mit328</i>	40	83646601 - 83646724	0	4.5
<i>D4Mit302</i>	42.5	85150136 - 85150243	4.5	4.5
<i>D4Mit327</i>	42.5	86096047 - 86096152	18.2	4.5
<i>D4Mit26</i>	42.5	88709739 - 88709948	36.4	4.5
<i>D4Mit165</i>	44.5	90783947 - 90784088	4.5	9.1
<i>D4Mit15</i>	42.5	91223153 - 91223437	4.5	4.5
<i>D4Mit166</i>	44.5	93541561 - 93541759	4.5	13.6
<i>D4Mit31</i>	51.3	106785035 - 106785155	0	0
<i>D4Mit211</i>	-	108880256 - 108880374	4.5	0
<i>D4Mit157</i>	63.4	135094765 - 135094902	13.6	4.5