

**Table SI. Caliper readings and calculated MCG 101 tumor volumes.**

Sex	Genotype	Animal no	Caliper readings (mm x mm)	Calculated tumor volume
Female	EP2 <sup>+/+</sup>	1	15x15	1,767.14
Female	EP2 <sup>+/+</sup>	5	13x13	1,150.35
Female	EP2 <sup>+/+</sup>	6	7.5x7.5	220.89
Female	EP2 <sup>+/+</sup>	27	11x15	1,150.35
Female	EP2 <sup>+/+</sup>	28	11.5x13	962.51
Female	EP2 <sup>+/+</sup>	45	19x17	3,053.63
Female	EP2 <sup>+/+</sup>	53	13x13	1,150.35
Female	EP2 <sup>+/+</sup>	66	14x14	1,436.75
Female	EP2 <sup>+/+</sup>	68	12x15	1,288.25
Male	EP2 <sup>+/+</sup>	4	10x12	696.91
Male	EP2 <sup>+/+</sup>	8	13x13	1,150.35
Male	EP2 <sup>+/+</sup>	9	14x14	1,436.75
Male	EP2 <sup>+/+</sup>	64	6x6	113.10
Male	EP2 <sup>+/+</sup>	65	10x10	523.60
Male	EP2 <sup>+/+</sup>	75	9x13	696.91
Male	EP2 <sup>+/+</sup>	82	10x10	523.60
Male	EP2 <sup>+/+</sup>	84	14 x14	1,436.75
Female	EP2 <sup>-/-</sup>	10	11x11	696.91
Female	EP2 <sup>-/-</sup>	12	11x11	696.91
Female	EP2 <sup>-/-</sup>	30	9x13	696.91
Female	EP2 <sup>-/-</sup>	49	12x15	1,288.25
Female	EP2 <sup>-/-</sup>	50	11.5x11.5	796.33
Female	EP2 <sup>-/-</sup>	51	13x13	1,150.35
Female	EP2 <sup>-/-</sup>	54	10x11	606.13
Female	EP2 <sup>-/-</sup>	59B	11.5x11.5	796.33
Male	EP2 <sup>-/-</sup>	15	1x1	0.52
Male	EP2 <sup>-/-</sup>	38	10x12	696.91
Male	EP2 <sup>-/-</sup>	81	5x5	65.45
Male	EP2 <sup>-/-</sup>	86	11.5x12	847.23
Male	EP2 <sup>-/-</sup>	89	10x10	523.60
Male	EP2 <sup>-/-</sup>	90	10x11	606.13
Male	EP2 <sup>-/-</sup>	95	11x12	796.33
Male	EP2 <sup>-/-</sup>	99	13x13	1,150.35

Tumor size was measured using caliper readings across two dimensions of the tumor the day before tissue harvest. Tumor size was assumed to be spherical and calculated according to the formula  $V=4/3*\pi*r^3$ . For non-symmetrical readings, the mean of the readings were used. The calculated tumor volume was significantly decreased in EP2<sup>-/-</sup> mice compared to EP2<sup>+/+</sup> mice. P<0.05, (t-test). EP2, prostaglandin E<sub>2</sub> receptor.