

**Supplemental Table 3**

Males	% of mice observed with cancer at death	% of mice examined	number of mice examined
wt	54.2	80.0	24 of 30
<i>riCTOR</i> <sup>+/-</sup>	9.1	78.6	11 of 14
L-RKO	29.4	94.4	17 of 18

1 *riCTOR*<sup>+/-</sup> male was euthanized for head tilt, 1 *riCTOR*<sup>+/-</sup> male euthanized for a deep abscess, and 2 L-RKO males were euthanized due to difficulty breathing

Females	% of mice observed with cancer at death	% of mice examined	number of mice examined
wt	43.8	82.1	32 of 39
<i>riCTOR</i> <sup>+/-</sup>	31.6	90.5	19 of 21
L-RKO	28.1	97.0	32 of 33

4 wt females, 1 *riCTOR*<sup>+/-</sup> female and 3 L-RKO females were euthanized for ulcerations and dermatitis