

**Supplemental Table S2 Numbers of co-cultured cells for transplantation**

Subpopulations of co-cultured cells	% cells on flow cytometry	No. of cells sorted for transplantation
CD41 <sup>+</sup>	82	5.5x10 <sup>6</sup>
CD41 <sup>-</sup>	2	1.1x10 <sup>5</sup>
c-Kit <sup>+</sup>	60	4.0x10 <sup>6</sup>
c-Kit <sup>-</sup>	15	1.0x10 <sup>6</sup>
CD34 <sup>+</sup>	55	4.5x10 <sup>6</sup>
CD34 <sup>-</sup>	15	1.0x10 <sup>6</sup>
CD45 <sup>+</sup>	20	1.3x10 <sup>6</sup>
CD45 <sup>-</sup>	60	4.0x10 <sup>6</sup>

1.5x10<sup>6</sup> CD41<sup>+</sup> EB6 cells were co-cultured with OP9 cells for 4 days. CD41<sup>+</sup> and CD41<sup>-</sup> cells, c-Kit<sup>+</sup> and c-Kit<sup>-</sup> cells, CD34<sup>+</sup> and CD34<sup>-</sup> cells, or CD45<sup>+</sup> and CD45<sup>-</sup> cells were simultaneously sorted from the GFP<sup>+</sup> fraction by flow cytometry. For each group of cell populations, one tenth of the volume of buffer containing GFP<sup>+</sup> cells was transplanted into each of 5-10 lethally irradiated mice.