

**Supplemental Table 1**

**SALL4 expression in normal bone marrow and chronic myeloid leukemia (CML)**

<b>CML and Normal Bone Marrow</b>		<b>No. of SALL4-positive Cases Per Total No. of Cases Examined (percentage)<sup>b</sup></b>
<b>Samples</b>	<b>Detection Method</b>	
Chronic phase CML	IHC	0/11
Accelerated phase CML	IHC	1/6
Blast crisis CML	IHC	9/12
Chronic phase CML	FACS	0/3
Blast crisis CML	FACS	5/5
Blast crisis CML	qRT-PCR	3/3
Total		18/43 (42.5%)
Normal bone marrow	FACS	0/3

<sup>a</sup>qRT-PCR = quantitate reverse transcriptase polymerase chain reactive; IHC = immunohistochemistry, FACS = fluorescence-activated cell sorting

<sup>b</sup>Criteria for positive expression of SALL4 were the presence of only nuclear staining of neoplastic cells and staining of >15% of cells. Criteria for negative expression of SALL4 were the presence of nuclear staining of cells and staining of <2%

**Supplemental Table 2**

**Complete Blood Count from the recipients**

	<b>WT (n=6)</b>	<b>TG (n=10)</b>	<b>BL6 (n=3)</b>
<b>WBC (x10<sup>3</sup>/ul)</b>	<b>82.3±45.4</b>	<b>118.9 ±88.0</b>	<b>7.7 ±6.7</b>
<b>RBC (x10<sup>6</sup>/ul)</b>	<b>10.2 ±1.3</b>	<b>9.6 ±1.7</b>	<b>8.7 ±1.4</b>
<b>PLT (x10<sup>3</sup>/ul)</b>	<b>371.7 ±139.7</b>	<b>610.8 ±422.6</b>	<b>1311.7 ±493.9</b>

## Figure Legends

**Supplemental Figure 1** Recipients of BCR-ABL induced SALL4B transgenic and wild-type bone marrow cells develop CML-like leukemia. All leukemic mice showed visibly pale marrow and splenomegaly compared with normal, healthy controls. Flow cytometry analysis demonstrated that 80% of BCR-ABL-positive bone marrow cells from both groups were Mac1+ and Gr-1+ neutrophils. FACS staining profile of whole bone marrow (A), BCR-ABL-positive bone marrow (B) and BCR-ABL positive spleen (C) cells from leukemic mice. (WT: n=4, SALL4B transgenic: n=9). BCR-ABL transduced cells were identified by GFP positivity and showed on X-axis.

### Supplemental Figure 1

