

**Supplementary Table 3. Defining Criteria: Acute Myeloid Leukemia**

(Kogan et al. <sup>1</sup> )	<i>Nr4a3</i> and <i>Nr4a1</i> Deficient Mice
1. A nonlymphoid hematopoietic neoplasm that diffusely involves hematopoietic tissue, generally both the spleen and bone marrow.	Myelopoietic disease involves both spleen and bone marrow.
2. Mice exhibit anemia, neutropenia, and/or thrombocytopenia.	Mice exhibit anemia, neutropenia, and thrombocytopenia.
3. Nonlymphoid hematopoietic cells are increased in spleen (generally in both bone marrow and spleen).	Myeloid blasts are increased in spleen and bone marrow.
4. Neoplastic cells are disseminated as defined by any combination of the following*: (A) Nonlymphoid hematopoietic cells are increased in tissues other than blood, spleen, and bone marrow (B) Leukocytosis is present, and nonlymphoid immature forms/blast make up at least 20% of leukocytes in the peripheral blood	(A) Myeloid blasts infiltrate liver and lung  (B) Leukocytosis is variable, and variable immature myeloid blasts up to 80% of leukocytes in the peripheral blood
5. Disorder exhibits additional aspect of malignancy in appearance or behavior as defined by any combination of the following*: (A) At least 20% nonlymphoid immature forms/blasts in blood, spleen, or bone marrow. (B) Rapidly fatal to primary animal (median time of appearance of leukemia in peripheral blood to moribund is 4 weeks or less). (C) Transplantable to normal or sublethally irradiated histocompatible recipients and rapidly fatal to transplant recipients (median time from transplantation to moribund is 8 weeks or less).	(A) Cytospins of spleen and bone marrow show 20% myeloid blasts (B) Diseased mice die within 4 weeks (C) Disease is transplantable to lethally irradiated mice, and recipient mice become moribund 5 - 6 weeks post transplantation. Disease is transplantable to sublethally irradiated mice, and recipient mice become moribund 16-22 weeks post transplantation.

\*Meaning “one or more of the attributes that follow”

1. Kogan, S.C. et al. Bethesda proposals for classification of nonlymphoid hematopoietic neoplasms in mice. *Blood* **100**, 238-45 (2002).