C57BL/6-Tg(Cd8a-cre)1ltan/J transgenic mice (Jax No. 008766) (HHMI)

These Cd8a-Cre transgenic mice have Cre recombinase activity observed in peripheral CD8+ T cells (CD8α+CD8β+ αβT cells and CD8α+CD8β- αβT cells, but not in CD4+CD8α-CD8β- αβT cells). The transgenic construct also contains GFP, which co-expresses with Cre, but the GFP expression is very low via flow cytometry. These mice may be useful for deletion of loxP-flanked sequences in CD8a-expressing cells.

Hemizygous mice are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. Cre activity is observed in peripheral CD8+ T cells (CD8 α+CD8β+ αβT cells and CD8α+CD8β- αβT cells, but not in CD4+CD8α-CD8β- αβT cells). When bred with a mouse containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked genome in cells that normally express Cd8a. The transgenic construct also contains GFP, which co-expresses with Cre, but the GFP expression is very low via flow cytometry.

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