

IRF8 +32 KO MICE

[Murphy, Kenneth](#)

[Zou, Dianxiong](#)

T-018830

Researchers first identified and then used CRISPR to delete an enhancer located at +32 kb of the *Irf8* transcriptional start site in mice. Knocking out this enhancer revealed that interferon regulatory factor 8 (IRF8) is required for the development of classical type 1 dendritic cells (cDC1s) but not for pre-cDC1 specification, which instead is driven by a +41-kb *Irf8* enhancer. These *Irf8* +32^{-/-} mice can therefore be useful in better understanding the development of cDC1s, which are essential for antiviral and antitumor immunity.

These mice have been deposited in Jackson Labs (Stock No: [032744](#)).

Publications: [An Nfil3–Zeb2–Id2 pathway imposes Irf8 enhancer switching during cDC1 development](#)
[Cryptic activation of an Irf8 enhancer governs cDC1 fate specification](#)