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Clpb fl/fl Conditional Knockout Mice

These conditional knockout mice are useful for studying and characterizing the role of Clpb in mitochondrial dysfunction in diseases such as Acute Myeloid Leukemia (AML).

In the Mx1-Cre; Clpb fl/fl mouse, the Mx1-Cre transgene drives the expression of Cre recombinase in response to interferon or poly I:C treatment. When these mice are bred with mice carrying the floxed Clpb allele, the offspring will have the Clpb gene deleted in cells where Mx1 is active and Cre is expressed. This allows researchers to study the specific role of the Clpb gene in these cells, while it remains functional in other tissues. This model is particularly useful for studying the role of Clpb in immune responses or in conditions where interferon is upregulated.

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Category

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Life Sciences/Materials/Mouse Models

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