# **Bmx Cre ERT2 Mouse**

Catalogue number: 151454 Sub-type: Mouse Images:

## Contributor

Inventor: Ralf H. Adams Institute: Cancer Research UK, London Research Institute: Lincoln's Inn Fields Images:

## **Tool details**

#### **\*FOR RESEARCH USE ONLY**

Name: Bmx Cre ERT2 Mouse

#### Alternate name:

#### Class:

#### Conjugate:

Cancer Tools.org Description: The estragen receptor (ERT2) under the Bone marrow x (Bmx) promoter (Bmx-Cre-ERT2) mouse exhibits tissue-specific expression of an inducible Cre-ERT2 fusion protein, enabling tamoxifen-induced Cre recombinase activity in arterial endothelial cells. The Bmx-Cre-ERT2 mouse is an ideal tool in the study of gene function in angiogenesis, atherosclerosis and neovascularisation. Administration of tamoxifen induces nuclear translocation of the Cre-ERT2 fusion protein, and subsequent Cre recombinase activity, allowing knockout/knockin/transgene studies of loxP flanked genes in endothelial cells.Non-induced Bmx-Cre-ERT2 mice demonstrate no Cre recombinase activity, while tamoxifen-induced Bmx-Cre-ERT2 mice demonstrate high penetrance in endothelial cells (95%+), significantly higher than existing endothelial Cre models currently available.

**Purpose:** Parental cell: **Organism:** Tissue: Model: Conditional KO Gender: **Isotype: Reactivity:** Selectivity: Host: Immunogen: Immunogen UNIPROT ID: Sequence:

#### Growth properties:

**Production details:** A Bmx-Cre-ERT2 transgene vector, containing a genomic VECad promoter fragment fused to a Cre-ERT2 cDNA, was injected into fertilised embryos (C57BL/6 or FVB/N). Founder lines were back-crossed to establish mice heterozygous for the Bmx-Cre-ERT2 transgene. **Formulation: Recommended controls:** 

CancerTools.org

Bacterial resistance: Selectable markers: Additional notes:

# **Target details**

Target: BMX, CreERT2

Target alternate names:

Target background:

Molecular weight:

Ic50:

# **Applications**

Application: Application notes:

# Handling

Format: Concentration: Passage number: Growth medium: Temperature: Atmosphere: Volume: Storage medium: Storage medium: Storage buffer: Storage conditions: Shipping conditions: Embryo/Spermatoza- Dry Ice

### **Related tools**

**Related tools:** 

### References

**References:** Maeda K et al. Dendrtic Cells. 1996. 6: 43-9 ; Maeda et al. 2002. J Histochem Cytochem. 50(11):1475-86. PMID: 12417613. ; Immunohistochemical recognition of human follicular dendritic cells (FDCs) in routinely processed paraffin sections. ; Ling et al. 1998. Clin Exp Immunol. 113(3):360-6. PMID: 9737663. ; Origin and properties of soluble CD21 (CR2) in human blood. ; Johnson et al. 1986. Clin Exp Immunol. 64(1):205-13. PMID: 3524917. ; Human follicular dendritic cells (FDC): a study with monoclonal antibodies (MoAb).

Cancer Tools.org