

# Alox12bf/fK14CreERT2 Mouse

**Catalogue number:** 153757

**Sub-type:** Mouse

**Images:**

## Contributor

**Inventor:** Peter Krieg

**Institute:** Deutsches Krebsforschungszentrum (DKFZ) German Cancer Research Center

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Alox12bf/fK14CreERT2 Mouse

**Alternate name:** Arachidonate 12-lipoxygenase, 12R-type, 12R-LOX, 12R-lipoxygenase, Epidermis-type lipoxygenase 12. UniProt ID:O75342

**Class:**

**Conjugate:**

**Description:** Tamoxifen inducible ablation of arachidonate 12-lipoxygenase (Alox12b) in epidermis (and other K14 expressing tissues). Alox12b plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss. Ichthyosis, congenital, autosomal recessive 2 (ARCI2). Ichthyosis is a family of rare genetic skin disorders characterised by dry, thickened, scaly skin.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:** Conditional KO

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:** Genetic modifications: a) Insertion of loxP sites flanking essential exon 8 of Alox12b (=floxed Alox12b)(Epp et al., JBC 2007) b) K14 cre/ESR1T2 (knock in) (Amen et al. Hum Mol Genet 2013) c) Crossing of the floxed Alox12b mice with the K14Cre mice (unpublished) d) Cross-bred with SKH1 hairless mice (unpublished) Mouse model also known as: Short name: SKH1/Alox12bflox/K14CreJ Full name: STOCK-Hrhr Alox12btm1Krie Krt14tm1.1(cre/ESR1T2)#Dkfz / Krie

## Target details

**Target:** Arachidonate 12-lipoxygenase (ALOX12B)

**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 buffer:**

**Storage conditions:**

**Shipping conditions:**

## Related tools

**Related tools:** Anti-12R-LOX, Polyclonal

## References

**References:**

CancerTools.org