

Resource Summary Report

Generated by [nidm-terms](#) on Aug 4, 2026

[Smad4^{tm2.1Cxd}/Smad4^{tm2.1Cxd}; Tg\(Alb1-cre\)1Dlr; Pten^{tm1Hwu}/Pten^{tm1Hwu}](#)

RRID:MGI:4839217

Type: Organism

Proper Citation

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Organism Information

URL:

Proper Citation: RRID:MGI:4839217

Description: Allele Detail: Targeted, Transgenic This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted, Transgenic This is a legacy resource.

Phenotype: abnormal bile duct morphology, increased cholangiocarcinoma incidence, hepatic steatosis, increased liver weight, premature death, enlarged liver

Affected Gene: Smad4, Pten

Genomic Alteration: tm1Hwu, Tg(Alb1-cre)1Dlr, tm2.1Cxd

Catalog Number: 4839217

Background: involves: 129S4/SvJae * 129S6/SvEvTac * FVB/N

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:16767220](#)

Organism Name: Smad4^{tm2.1Cxd}/Smad4^{tm2.1Cxd}; Tg(Alb1-cre)1Dlr; Pten^{tm1Hwu}/Pten^{tm1Hwu}

Record Creation Time: 20240120T190240+0000

Record Last Update: 20240130T201812+0000

Ratings and Alerts

No rating or validation information has been found for Smad4^{tm2.1Cxd}/Smad4^{tm2.1Cxd}; Tg(Alb1-cre)1Dlr; Pten^{tm1Hwu}/Pten^{tm1Hwu}.

No alerts have been found for Smad4^{tm2.1Cxd}/Smad4^{tm2.1Cxd}; Tg(Alb1-cre)1Dlr; Pten^{tm1Hwu}/Pten^{tm1Hwu}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We have not found any literature mentions for this resource.