

[Mouse Models](#)[SCA11](#)[Publication](#)

# conditional Ttbk2 KO (Ttbk2pcp2)

## IDENTIFICATION

Causal gene(s)	TTBK2
Repeat size or mutation	Conditional Ttbk2 knockout specifically in the Purkinje cells
Animal model	Mouse

## MODEL DETAILS

Type of model	Knockout
---------------	----------

## TRANSGENIC CONSTRUCT

Transgenic construct: details	a conditional allele of Ttbk2 from the European Mutant Mouse Cell Repository (Ttbk2tm1c(EUCOMM)Hmgu) was crossed with a mouse line expressing tamoxifen-inducible Cre recombinase driven by a Pcp2 promoter
Promoter: gene	Pcp2
Promoter: species	Mouse

## PHENOTYPE

Hallmark features	lower number of primary cilia, loss of VGLUT2 synapses in cerebellum, locomotor deficiencies
-------------------	--

## SOURCE & PUBLICATIONS

Originating lab / institution	Duke University
Links to publications or public resources	TTBK2 and primary cilia are essential for the connectivity and survival of cerebellar Purkinje neurons - PubMed <a href="https://pubmed.ncbi.nlm.nih.gov/31934864/">https://pubmed.ncbi.nlm.nih.gov/31934864/</a>