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# conditional Ttbk2 KO (Ttbk2c.mut)

## IDENTIFICATION

Causal gene(s)	TTBK2
Repeat size or mutation	Ubiquitous conditional Ttbk2 knockout
Animal model	Mouse

## MODEL DETAILS

Type of model	Knockout
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## 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 ubiquitously expressed promoter, Ubc-Cre-ERT2
Promoter: gene	Ubc
Promoter: species	Mouse

## PHENOTYPE

Hallmark features	Locomotor deficiencies, thinning of molecular layer of cerebellum, loss of VGLUT2 synapses in cerebellum, neuronal shrinking, altered bergmann glia morphology, loss of neuronal primary cilia
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## 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>