

CEPT1 FLOXED MICE

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C57BL/6 ES cells were targeted with a vector (European Conditional Mouse Mutagenesis Program) carrying loxP sites flanking exon 3 of mouse Cept1. A karyotypically normal clone (of 10 correctly targeted) was injected into B6(Cg)-Tyrc-2J/J blastocysts and chimeric mice were bred with B6(Cg)-Tyrc2J/J females, and then offspring were crossed with Flp recombinase transgenics to remove the neo cassette and yield floxed heterozygous Cept1 mice (Cept1 lox+/wt). Breeding with human α -skeletal actin (HSA)-Cre mice (13) generated CEPT1 muscle-specific knockout (CEPT1-MKO) mice, which were born in expected Mendelian fashion, indistinguishable from their control littermates and fertile.

Funai, K., Lodhi, I.J., Spears, L.D., Yin, L., Song, H., Klein, S., Semenkovich, C.F. (2016). [Skeletal Muscle Phospholipid Metabolism Regulates Insulin Sensitivity and Contractile Function](#). *Diabetes*, 65(2): 358-370.