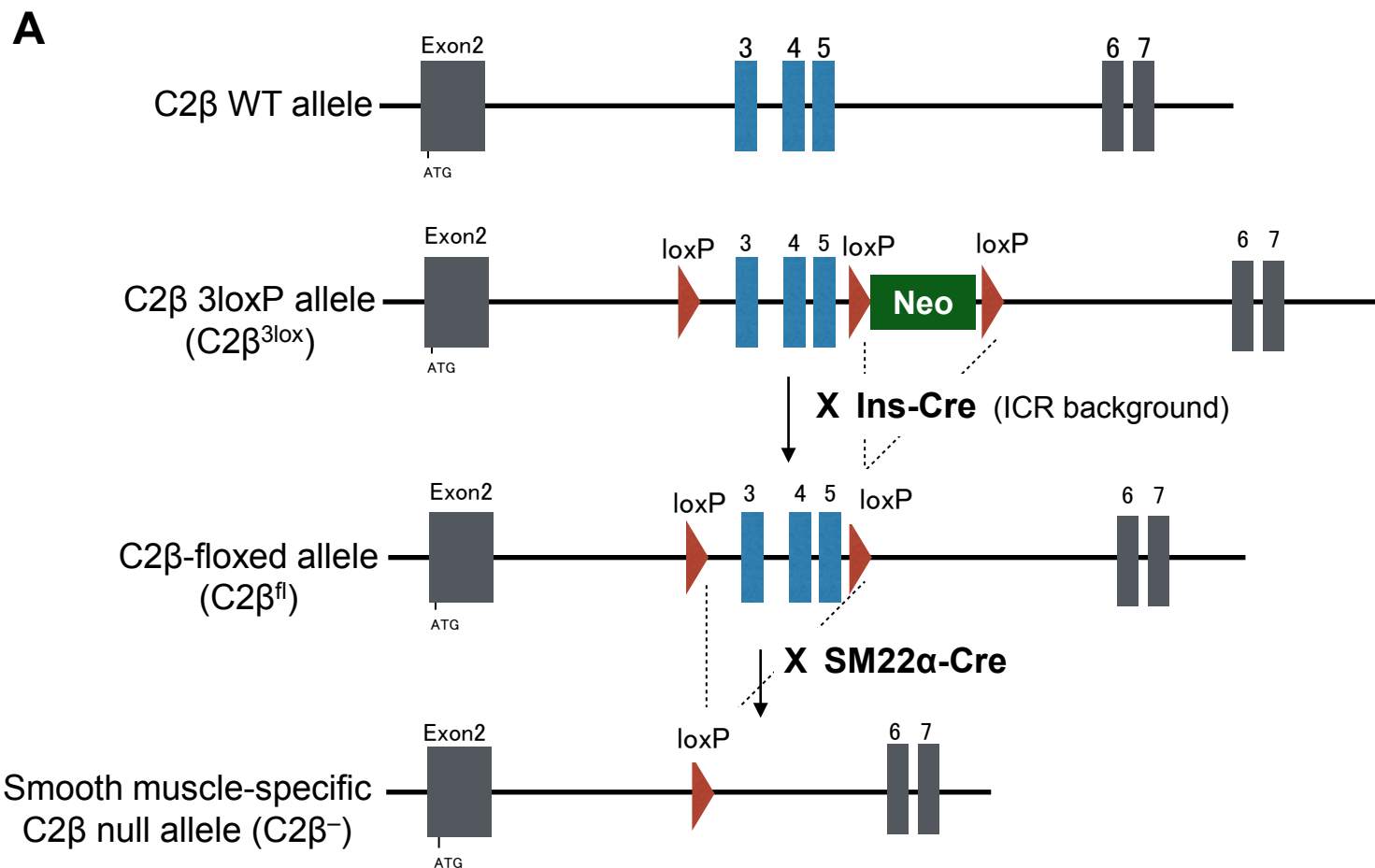


Class II PI3Ks and Are Required for Rho-Dependent Uterine Smooth Muscle Contraction and Parturition in Mice

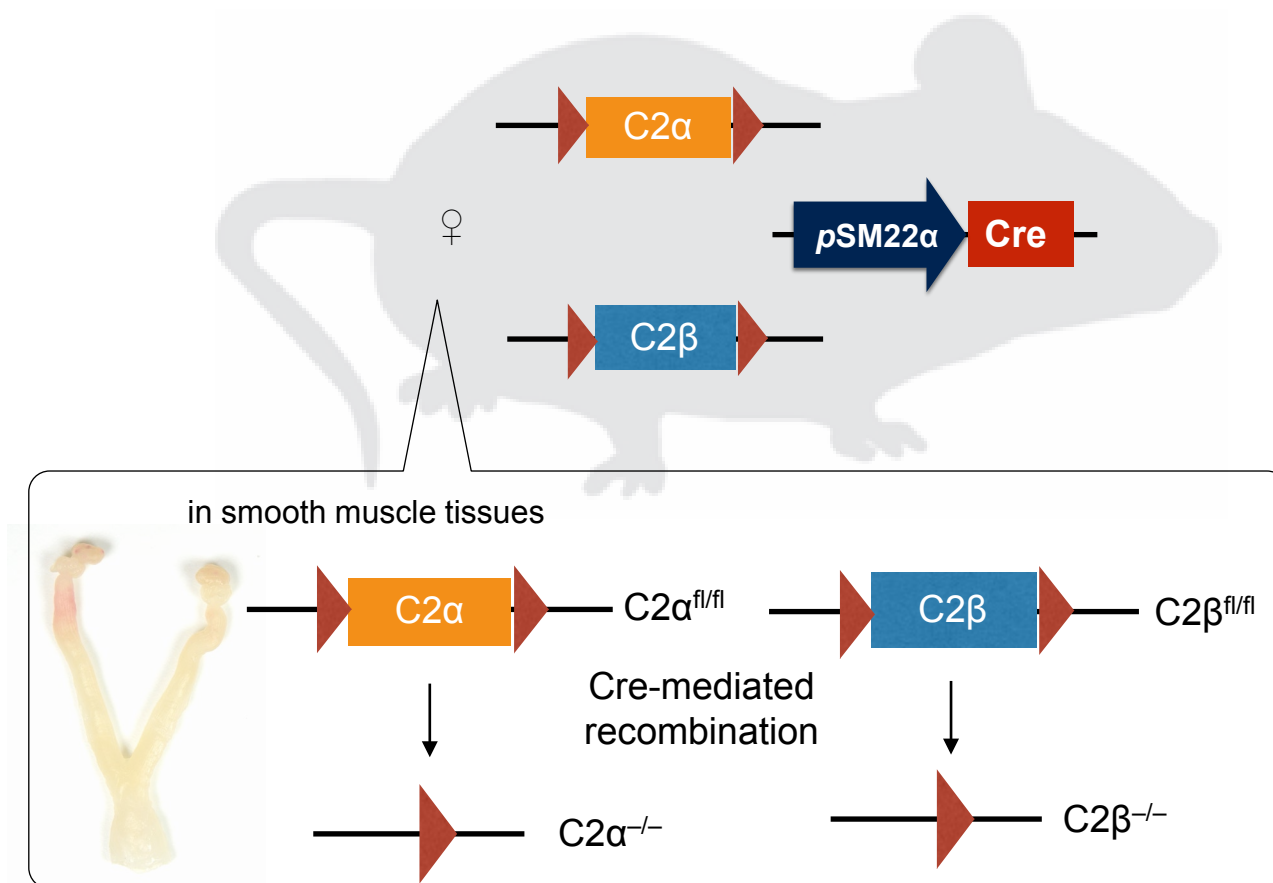
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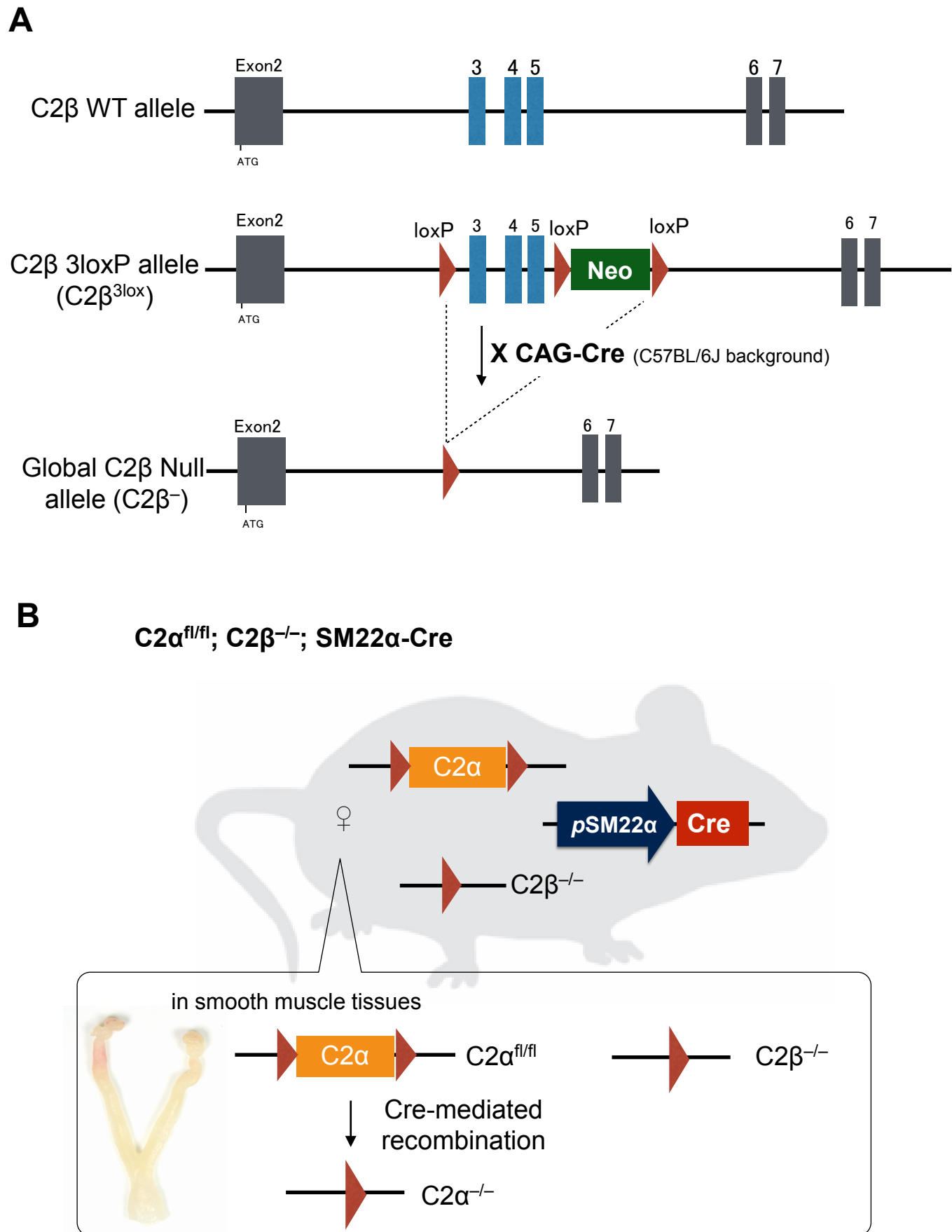


B **smDKO: $C2\alpha^{fl/fl}$; $C2\beta^{fl/fl}$; SM22α-Cre**



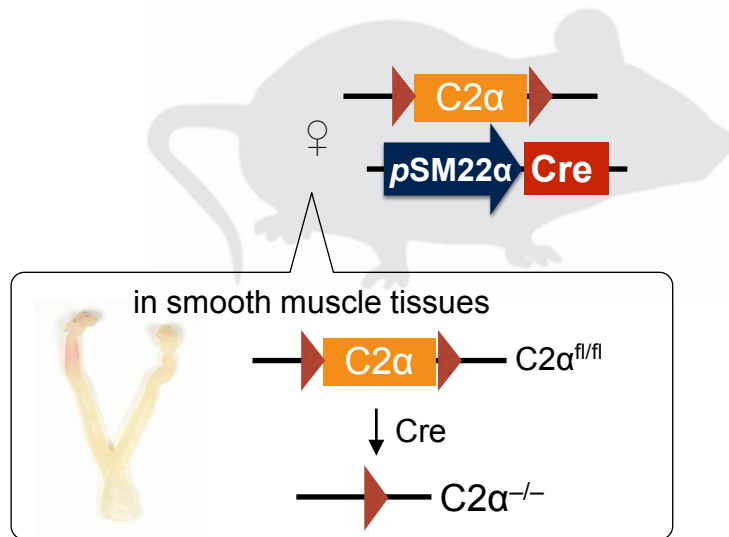
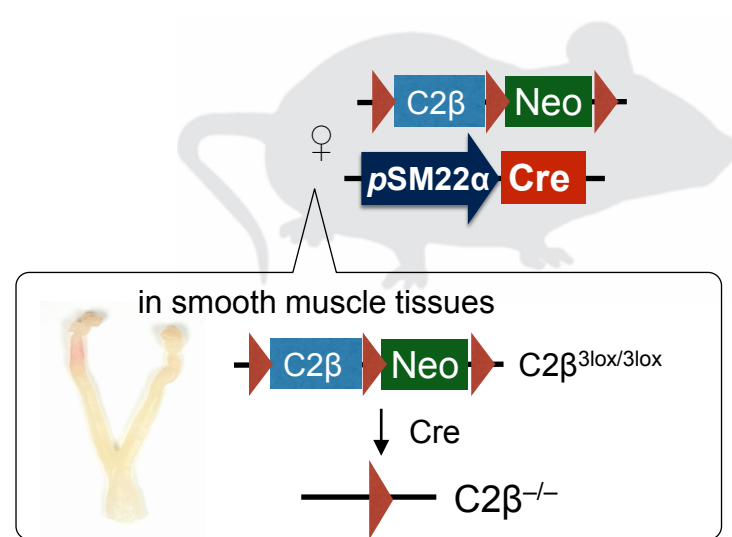
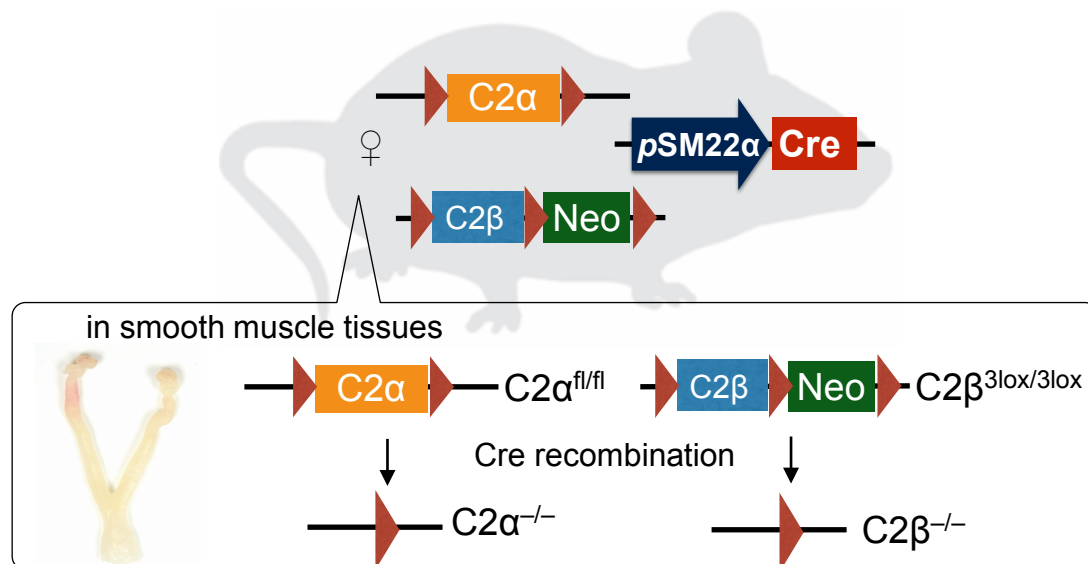
Supplementary Figure 1. Generation of C2β floxed mice and smooth muscle-specific deletion of C2α and C2β.

A. C2β 3loxP allele has one loxP before exon 3 and the two loxPs flanking the neomycin cassette (Neo). To produce C2β-floxed allele, the Neo was specifically deleted by mating with Ins-Cre mice (ICR strain), which expressed Cre recombinase (Cre) downstream of the insulin promoter in fertilized eggs. C2β-floxed allele was specifically deleted in smooth muscle by Cre that are expressed by SM22α promoter. B. In smDKO mice, both C2α- and C2β-floxed alleles are specifically deleted in smooth muscle by SM22α promoter-driven expression of Cre.



Supplementary Figure 2. Generation of $C2\beta$ -null mice and smooth muscle-specific deletion of $C2\alpha$ -floxed allele in $C2\beta$ -null mice.

A. $C2\beta$ 3loxP allele-carrying mice were crossed with mice that expressed Cre downstream of the universal CAG promoter, leading to generation of mice with $C2\beta$ -null allele. B. $C2\alpha$ -floxed allele is specifically deleted in smooth muscle by SM22 α promoter-driven expression of Cre.

A**smC2 α KO: C2 $\alpha^{fl/fl}$; SM22 α -Cre****B****smC2 β KO: C2 $\beta^{3lox/3lox}$; SM22 α -Cre****C****C2 $\alpha^{fl/fl}$; C2 $\beta^{3lox/3lox}$; SM22 α -Cre**

Supplementary Figure 3 Smooth muscle-specific single deletion of C2 α -floxed allele (smC2 α KO) (A) and C2 β 3loxP allele (smC2 β KO) (B), and deletion of both C2 α -floxed allele and C2 β 3loxP allele (C) by SM22 α promoter-driven expression of Cre.