Rosa26-SA-CreERT2 Cas9-KI Strategy

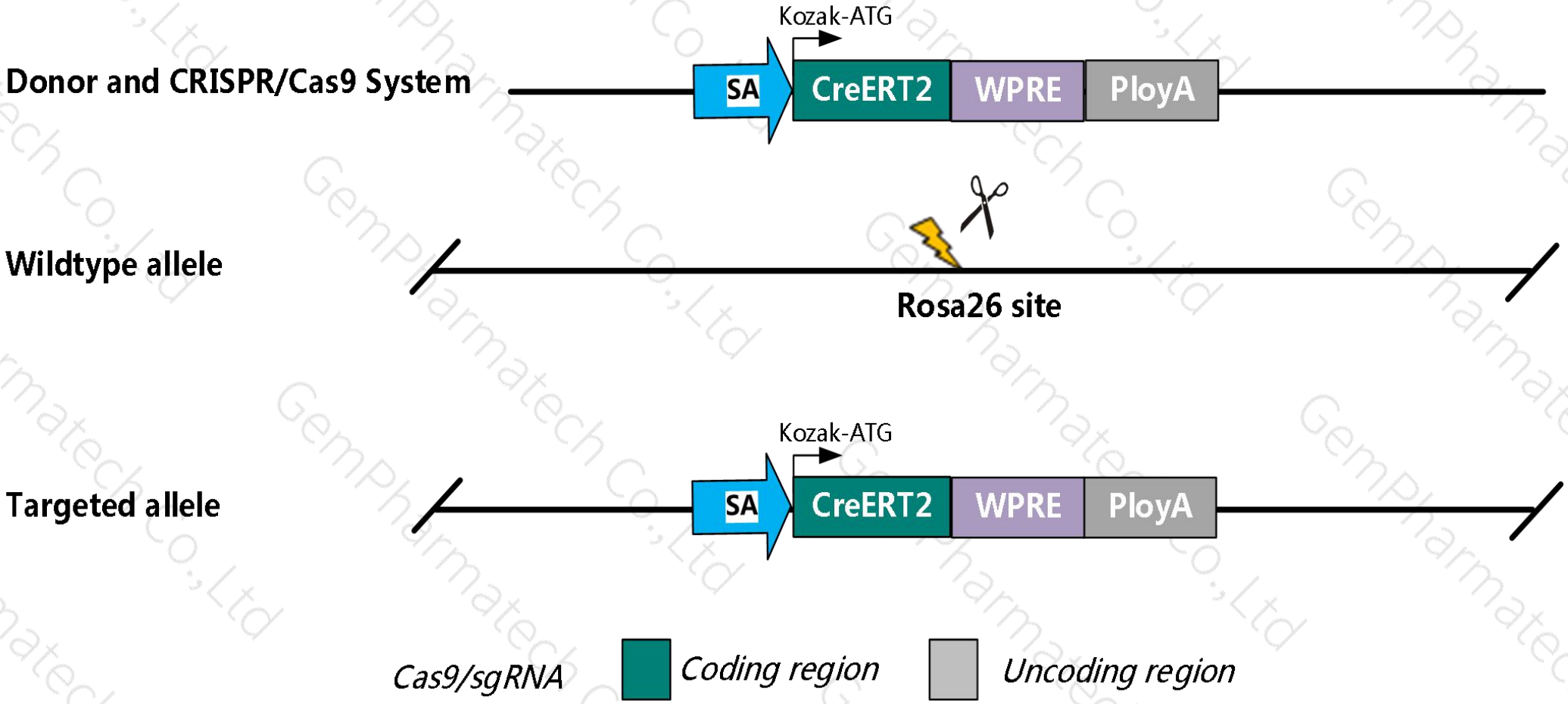
Designer: Yun Li
Reviewer: Jinlong Zhao
Design Date: 2020/8/11

Project Overview

Project Name	***Rosa26-CreERT2***
Project type	**Cas9-KI**
Strain background	**C57BL/6JGpt**

Knockin strategy

This model will use CRISPR/Cas9 technology to edit. The schematic diagram is as follows:



Technical routes

➢ CreERT2 is expressed by the systemic promoter Rosa26, Kozak and WPER are used to enhance the translation of CreERT2.

➢In this project we use CRISPR/Cas9 technology to modify Rosa26 localization. The brief process is as follows:CRISPR/Cas9 system and Donor were microinjected into the fertilized eggs of C57BL/6J mice.Fertilized eggs were transplanted to obtain positive F0 mice which were confirmed by PCR and sequencing. A stable F1 generation mouse model was obtained by mating positive F0 generation mice with C57BL/6J mice.

Notice

- The Rosa26 localization is located on the Chr6. If the knockout mice are crossed with other mice strains to obtain double gene positive homozygous mouse offspring, please avoid the two genes on the same chromosome.

- This Strategy is designed based on genetic information in existing databases.Due to the complexity of biological processes,all risk of fragments insertion on gene transcription, RNA splicing and protein translation cannot be predicted at existing technological level.

If you have any questions, you are welcome to inquire.
Tel: 400-9660890

集萃药康生物科技
GemPharmatech Co.,Ltd