Ace2 humanization strategy

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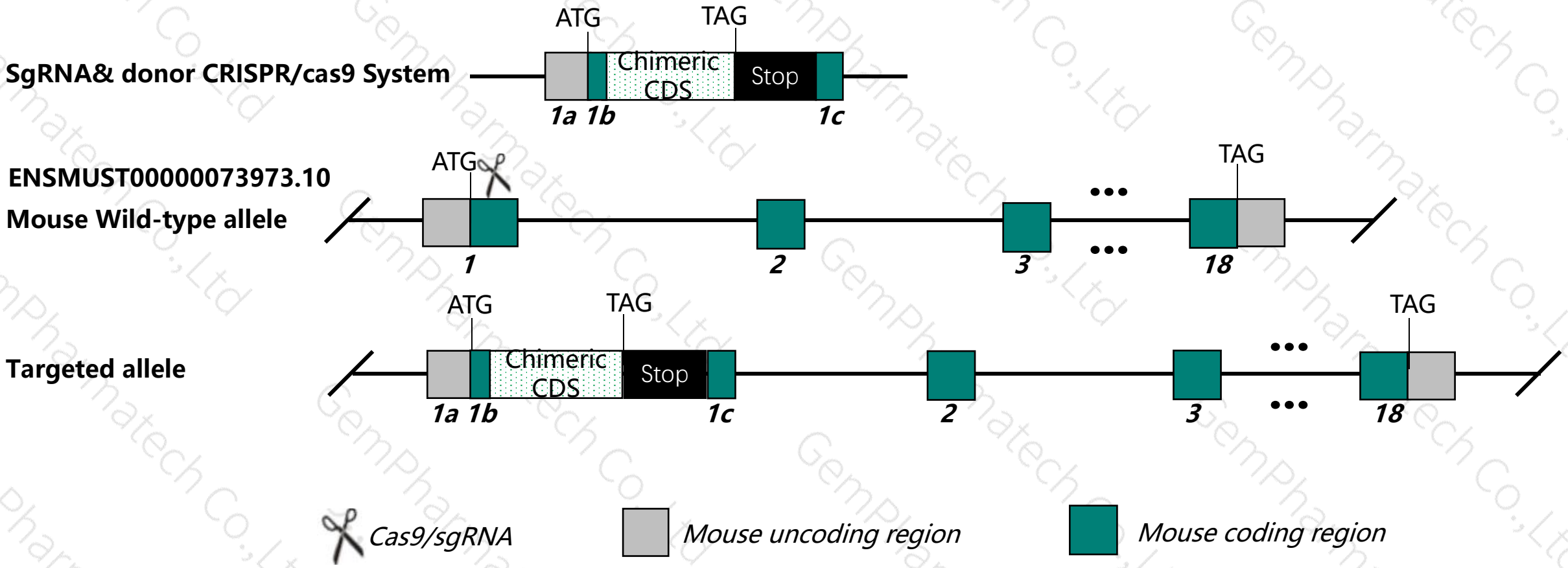
Project Overview

Project Name	**hACE2**
Project type	**Cas9-KI**
Strain background	**C57BL/6JGpt**

hACE2 in situ KI model



1b: mouse *Ace2* signal peptide (1-51nt)

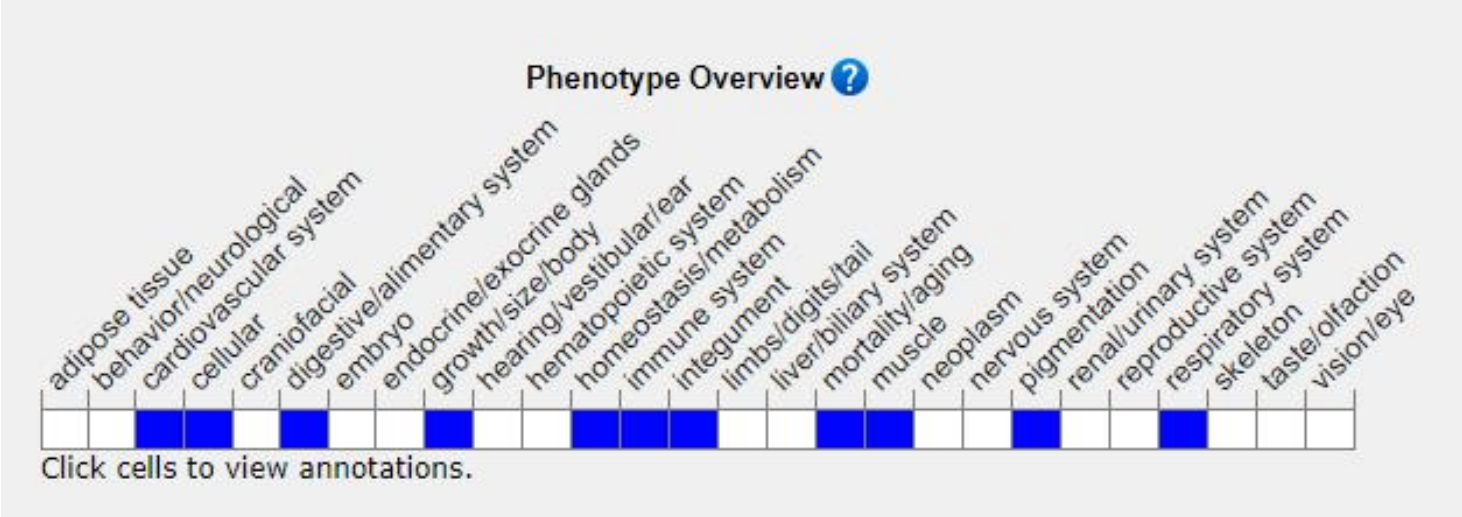
Chimeric CDS: The extracellular region of human ACE2, the intracellular region and the transmembrane region of mouse Ace2

hACE2 in situ KI model

- According to the gene structure, mouse Ace2-201 (ENSMUST00000073973.10) transcript was selected for construct,chimeric CDS and transcriptional Stop signal will be introduced to precisely after the signal peptide of *Ace2*.
- hACE2 and mAce2 Chimeric CDS was expressed under the direction of endogenous regulatory mechanism.
- This Strategy is designed based on genetic information in existing databases.Due to the complexity of gene transcription and translation, it is impossible to predict all of them with the current technology.

MGI phenotype data/Lethality

Neither embryonic lethality nor early fatal postnatal development defects reported.



Targeted disruption of this locus results in reduced cardiac contractility. Male mice hemizygous for a knock-out allele exhibit increased susceptibility to induced colitis.

Source: http://www.informatics.jax.org/marker/key/53988

If you have any questions,
please feel free to contact us.

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