

# **Ace2 humanization strategy**

**Designer: Mingkun Zhang**

**Reviewer: Cunxiang JU**

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# Project Overview



**Project Name**

**hACE2**

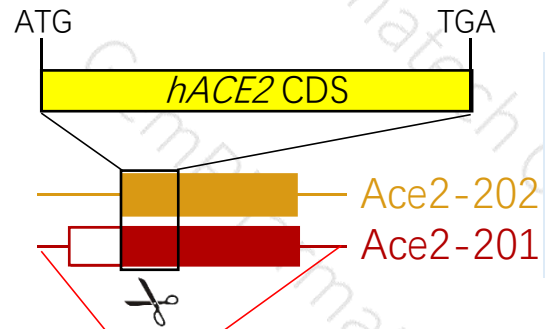
**Project type**

**Cas9-KI**

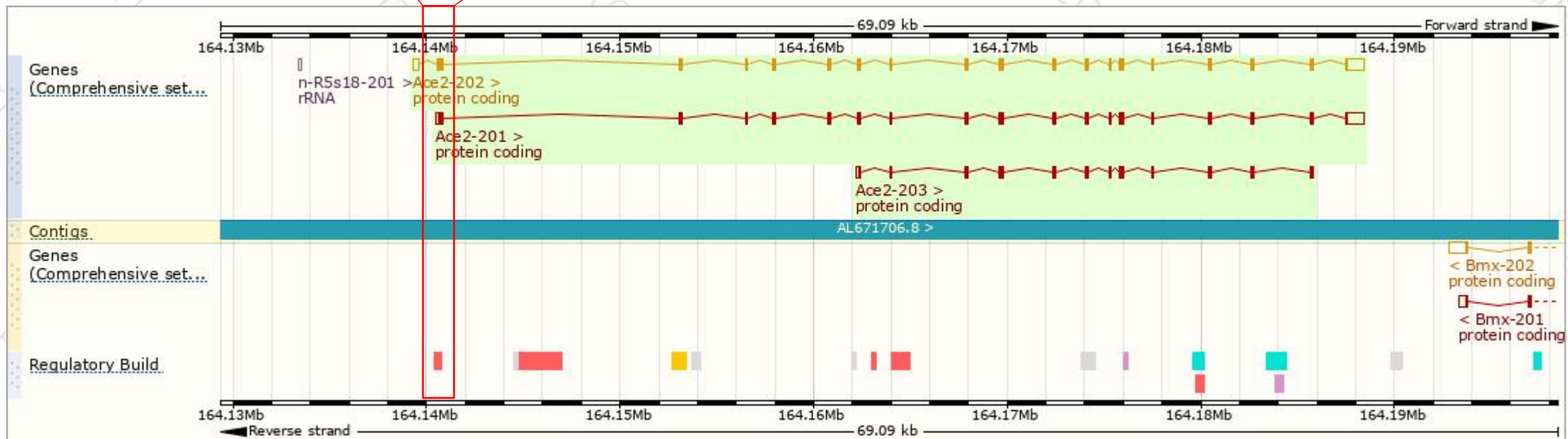
**Strain background**

**C57BL/6JGpt**

# *hACE2 in situ* KI model



- Human *ACE2* CDS (from ATG to TGA) will be inserted after the ATG code of mouse *Ace2* in the first coding exon, Human *ACE2* can be expressed under the regulation of mouse endogenous *Ace2* regulatory signals.



Cas9/sgRNA complex



Mouse *Ace2* exon



Human *ACE2* CDS (~2.4kb)

# *hACE2 in situ* KI model

- Human ACE2 CDS including ATG and TGA will be introduced to precisely after the internal ATG code of mouse Ace2 gene.
- Human ACE2 will be expressed physiologically under the direction of endogenous regulatory mechanism.
- Several nucleotides of the first coding exon of mouse Ace2 will be replaced when integration of human ACE2 CDS.
- The pathological characteristics after infection of coronaviruses remains unknown.

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



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