

Il1f8 Cas9-KO Strategy

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Design Date: 2019-08-06

Project Overview

Project Name

Il1f8

Project type

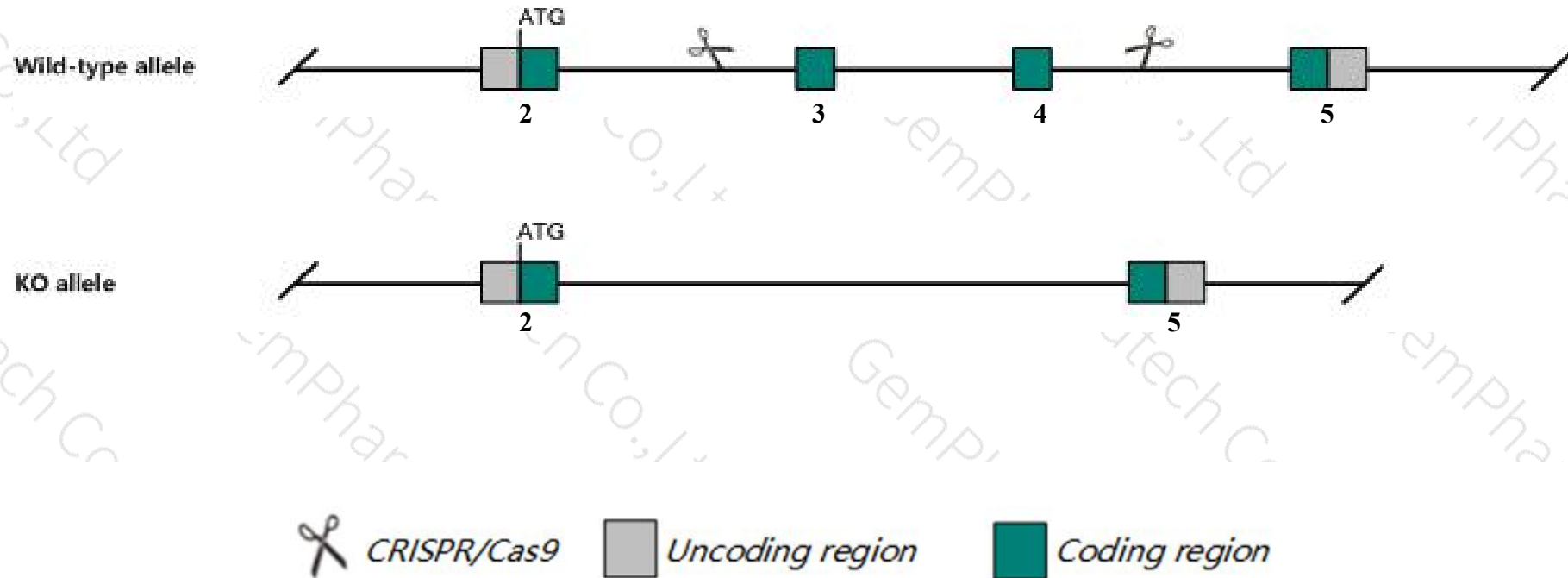
Cas9-KO

Strain background

C57BL/6JGpt

Knockout strategy

This model will use CRISPR/Cas9 technology to edit the *Il1f8* gene. The schematic diagram is as follows:



- The *Il1f8* gene has 1 transcript. According to the structure of *Il1f8* gene, exon3-exon4 of *Il1f8*-201 (ENSMUST00000028363.1) transcript is recommended as the knockout region. The region contains 248bp coding sequence. Knock out the region will result in disruption of protein function.
- In this project we use CRISPR/Cas9 technology to modify *Il1f8* gene. The brief process is as follows: CRISPR/Cas9 system v

- The *Il1f8* gene is located on the Chr2. 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 the gene knockout on gene transcription, RNA splicing and protein translation cannot be predicted at the existing technology level.

Gene information (NCBI)

Il1f8 interleukin 1 family, member 8 [Mus musculus (house mouse)]

Gene ID: 69677, updated on 31-Jan-2019

Summary



Official Symbol	Il1f8 provided by MGI
Official Full Name	interleukin 1 family, member 8 provided by MGI
Primary source	MGI:MGI:1916927
See related	Ensembl:ENSMUSG00000026985
Gene type	protein coding
RefSeq status	PROVISIONAL
Organism	Mus musculus
Lineage	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Myomorpha; Muroidea; Muridae; Murinae; Mus; Mus
Also known as	2310043N20Rik, Il36b
Expression	Low expression observed in reference dataset See more
Orthologs	human all

Transcript information (Ensembl)

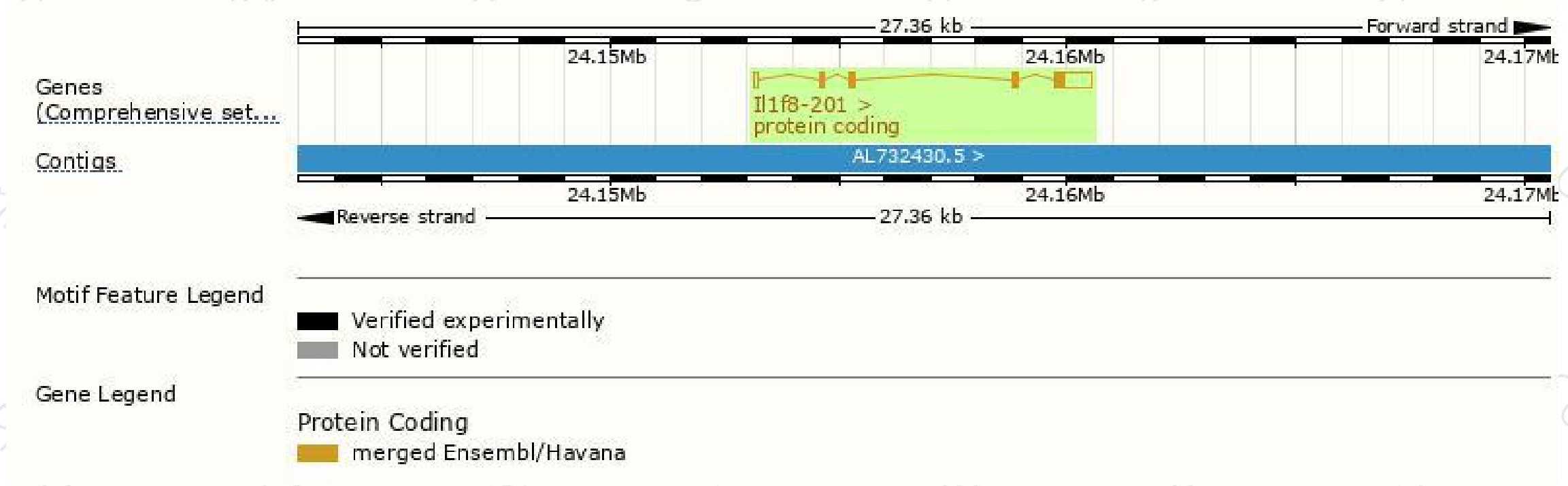
The gene has 1 transcript, and the transcript is shown below:

Name	Transcript ID	bp	Protein	Biotype	CCDS	UniProt	Flags
Il1f8-201	ENSMUST00000028363.1	1217	183aa	Protein coding	CCDS38063	Q08EA6 Q9D6Z6	TSL:1 GENCODE basic APPRIS P1

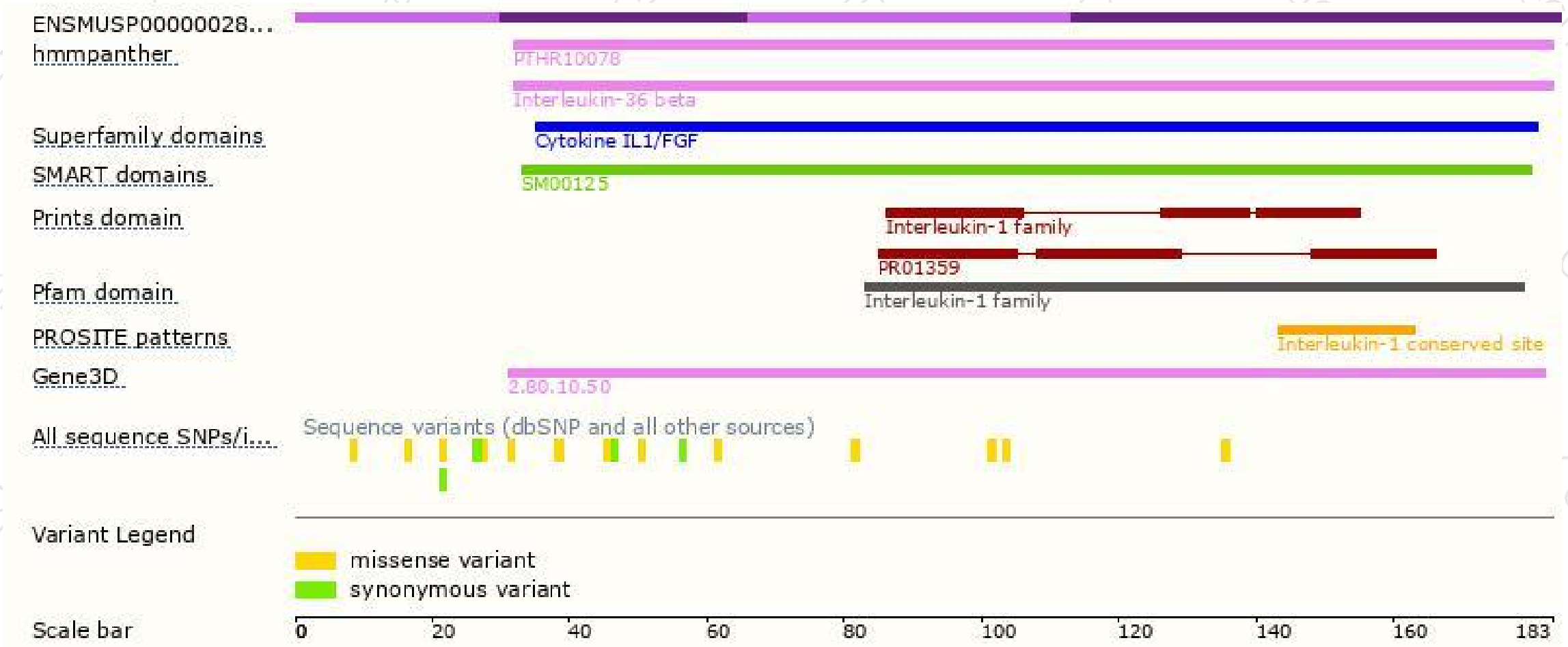
The strategy is based on the design of *Il1f8-201* transcript, The transcription is shown below



Genomic location distribution



Protein domain



If you have any questions, you are welcome to inquire.

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