

AUG 26, 2023

## CRISPR/Cas9 genome editing

wusi<sup>1</sup>, schekman<sup>1</sup>

<sup>1</sup>Department of Molecular and Cell Biology, Howard Hughes Medical Institute, University of California, Berkeley, Berkeley, United States



Nancy C. Hernandez Villegas

**ABSTRACT** 

This protocol describes the generation of DNAJC5 KO using CRISPR/Cas9 edition

## OPEN ACCESS



## DOI:

dx.doi.org/10.17504/protocol s.io.rm7vzxb38gx1/v1

**Protocol Citation:** wusj, schekman 2023. CRISPR/Cas9 genome editing. **protocols.io** https://dx.doi.org/10.17504/protocols.io.rm7vzxb38gx1/v1

License: This is an open access protocol distributed under the terms of the Creative Commons
Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Protocol status:** Working We use this protocol and it's working

Created: Aug 03, 2023

Last Modified: Aug 26,

2023

Oct 26 2023

## **CRISPR/Cas9** genome editing

- 1 gRNA targeting exon 4 of DNAJC5 ( CACC GGAG GCCG CAGA AGAC AAAC A) was inserted into a pX330-based plasmid expressing Venus fluorescent protein
- 2 HEK293T cells were transfected with pX330-pX330-Venus-DNAJC5-Exon4-gRNA by Lipofectamine 2000 followed the commercial protocol by Thermo Fisher.
- After 48 hr, we diluted the cells and single colonies were isolated from 96-well plate, expanded, and determined for DNAJC5 KO by immunoblot.