[CLAIMS]

[Claim 1]

A method for producing an endogenous DNA-edited mammalian cell, comprising:

introducing a CRISPR-Cas3 system into a mammalian cell, wherein

the CRISPR-Cas3 system includes the following (A) to (C)

(A) a Cas3 protein, a polynucleotide encoding the protein, or an expression vector containing the polynucleotide,

(B) a Cascade protein, a polynucleotide encoding the protein, or an expression vector containing the polynucleotide, and

(C) a pre-crRNA which targets the endogenous DNA, a polynucleotide encoding the pre-crRNA, or an expression vector containing the polynucleotide.

[Claim 2]

A method for producing an endogenous DNA-edited non-human mammal, comprising:

introducing a CRISPR-Cas3 system into a non-human mammal, wherein

the CRISPR-Cas3 system includes the following (A) to (C)

(A) a Cas3 protein, a polynucleotide encoding the

protein, or an expression vector containing the polynucleotide,

(B) a Cascade protein, a polynucleotide encoding the protein, or an expression vector containing the polynucleotide, and

(C) a pre-crRNA which targets the endogenous DNA, a polynucleotide encoding the pre-crRNA, or an expression vector containing the polynucleotide.

[Claim 3]

The method according to claim 1 or 2, further comprising

cleaving the pre-crRNA which targets the endogenous DNA with a protein constituting the Cascade protein after introducing the CRISPR-Cas3 system into the mammalian cell or the non-human mammal.

[Claim 4]

The method according to any one of claims 1 to 3, wherein

a nuclear localization signal is added to the Cas3 protein and/or the Cascade protein.

[Claim 5]

The method according to claim 4, wherein

the nuclear localization signal is a bipartite nuclear localization signal.