[CLAIMS]

[Claim 1]

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

introducing a CRISPR-Cas3 system into a mammalian ~~eukaryotic~~ 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 ~~animal (excluding a human) or plant~~mammal, comprising:

introducing a CRISPR-Cas3 system into a~~n~~ ~~animal (excluding a human) or plant~~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 ~~eukaryotic~~ cell or 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.

~~[Claim 6]~~

~~A kit for use in the method according to any one of~~

~~claims 1 to 3, 5 and 6, the kit comprising 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 7]~~

~~The kit according to any one of claim 7, wherein~~

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

~~[Claim 8]~~

~~The kit according to claim 7, wherein~~

~~the nuclear localization signal is a bipartite nuclear localization signal.~~