Fig 1

**a**
N-terminal domain  TALE repeat domains  C-terminal domain  FokI nuclease domain

**b**

**c**
N-terminal domain  TALE repeat domains  C-terminal domain

**d**

LFPDQVVA1ASRGKGQALETQRPLLPVLQDHG

5'-tCTCAGTGGCACTAC-3'

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Fig 2

**a**
Nuclease-induced DSB

NHEJ-mediated repair  HDR-mediated repair

Donor template

Precise nucleotide alterations  Precise insertion

Insertion and deletion (Indel) Mutations

**b**
Deletion  Inversion

Translocation

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Engineered Zinc finger array

Individual Zinc finger

Alter DNA recognition residues

Zinc fingers with new specificities

Join fingers together

Zinc finger array

FokI cleavage domain

Transcriptional regulatory domain

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