Claims

1. A nucleic acid delivery vector comprising a circular single stranded polynucleotide said vector comprising:

(a) a duplex formed from a first section and a third section of said polynucleotide, said sections including sequences which are complementary;

(b) a loop formed from a second section, said section separating the first and third sections;

wherein said duplex includes a recognition sequence for a targeted nuclease.

2. The nucleic acid delivery vector of claim 1 wherein said vector delivers a linear single stranded nucleic acid, wherein said single stranded nucleic acid is present within the second section.

3. The nucleic acid delivery vector of claim 2 wherein the linear single stranded nucleic acid may be any one or more of: a nucleic acid enzyme, an aptamer, a donor template, an mRNA, a functional RNA, or an antisense nucleic acid.

4. The nucleic acid delivery vector of claim 2 or 3 wherein the linear single stranded nucleic acid has a free 5' and 3' end once released from the delivery vector.

5. The nucleic acid delivery vector of claim 1 wherein said vector is a closed circular polynucleotide, optionally a closed DNA or closed RNA.

6. The nucleic acid delivery vector of any previous claim wherein said nuclease is a guided nuclease, optionally a nuclease associated with gene editing, preferably Cas9.

7. The nucleic acid delivery vector of any one of claims 1 to 5 wherein the nuclease binds to the recognition sequence without a guide.

8. The nucleic acid delivery vector of any previous claim wherein said vector is for use in a cell.

9. A method of providing a linear single stranded nucleic acid to a cell, comprising the use of a delivery vector as claimed in any one of claims 1 to 8.

10. A method of providing a linear single stranded donor template to a cell for genome editing, comprising the use of a delivery vector as described in any one of claims 1 to 8, preferably wherein said linear single stranded nucleic acid is a donor template.

11. A method as claimed in claim 10 wherein said nuclease is a guided nuclease, optionally Cas9 or a variant thereof.