

SEQUENCE

LISTING

<110> Auerbach, Wojtek
Frendewey, David
Droguett, Gustavo
Gagliardi, Anthony
Kuno, Junko
Valenzuela , David M.

<120> METHODS AND COMPOSITIONS
FOR MODIFYING A TARGETED LOCUS

<130> 057766-461003

<150> US 62/008,832
<151> 2014-06-06

<150> US 62/017,916
<151> 2014-06-27

<160> 20

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> a target locus that is linked to a guide RNA
(gRNA)

<220>
<221> misc_feature
<222> 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
<223> n = A,T,C or G

<400> 1
gnnnnnnnnnn nnnnnnnnnn ngg
23

<210> 2
<211> 80
<212> RNA
<213> Artificial Sequence

<220>
<223> a guide RNA (gRNA)

<400> 2
guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc
cguaaucaac uugaaaaagu 60
ggcaccgagu cggugcuuuu
80

<210> 3
<211> 42
<212> RNA
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<220>
<223> a guide RNA (gRNA)

<400> 3
guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc cg
42

<210> 4
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> a crRNA

<400> 4
guuuuagagc uagaaauagc aaguuaaaau
30

<210> 5
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> a crRNA

<400> 5
guuuuagagc uagaaauagc aaguuaaaau aag
33

<210> 6
<211> 26
<212> RNA
<213> Artificial Sequence

<220>
<223> a crRNA

<400> 6
gaguccgagc agaagaagaa guuuua
26

<210> 7
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> a tracrRNA

<400> 7
aaggcuaguc cg
12

<210> 8
<211> 50
<212> RNA
<213> Artificial Sequence

<220>
<223> a tracrRNA

<400> 8
aaggcuaguc cguaaucaac uugaaaaagu ggcaccgagu
cggugcuuuu 50

<210> 9
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Neo-ZFN(1,2): NUCLEASE BINDING SITE/cut site

<400> 9
gggcgcccggttctttttgt caagaccgac ctgtccggtg
40

<210> 10
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> ZFN(3,4): NUCLEASE BINDING SITE/cut site

<400> 10
ccggttcttt ttgtcaagac cgacctgtcc ggtgcc
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<210> 11
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> ZFN(1,2): NUCLEASE BINDING SITE/cut site

<400> 11
tgcgatcgct gcggccgcatc ttagccagac gagcgggttc gg
42

<210> 12
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Hyg-ZFN(3,4): NUCLEASE BINDING SITE/cut site

<400> 12
cgctgcggcc gatcttagcc agacgagcgg gttcgg
36

<210> 13
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> gRNA Neo Crispr#1

<400> 13
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<210> 14
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<400> 14
ggcagcgcgg cuaucguggc
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<210> 15
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<210> 16
<211> 20
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<210> 17
<211> 20
<212> RNA
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<223> gRNA Hyg Crispr#1

<400> 17
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<210> 18
<211> 20
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<210> 19
<211> 20
<212> RNA
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<220>
<223> gRNA Hyg Crispr#3

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20

<210> 20
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> gRNA Hyg Crispr#4

<400> 20
cgaccugaug cagcucgcg
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