SEQUENCE LISTING

<110> Frendewey, David
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Yancopoulos, George D.

<120> METHODS AND COMPOSITIONS FOR TARGETED
GENETIC MODIFICATION USING PAIRED GUIDE RNAS

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<150> US 62/083,005
<151> 2014-11-21

<150> US 62/182,314
<151> 2015-06-19

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cccgacacct tctgagcatg 20

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<400> 129
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<210> 130
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<220>
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<210> 134
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<223> hIgH31 LOA forward primer

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<210> 135
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<400> 136
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<210> 137
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<220>
<223> hIgH9 LOA forward primer

<400> 137
tcctccaacg acaggtccc 19

<210> 138
<211> 20
<212> DNA
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<220>
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<400> 138
gatgaactga cgggcacagg 20

<210> 139
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<220>
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<210> 140
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<210> 141
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<220>
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<400> 141
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<220>
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<220>
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<400> 145
tgggcacaac agacaatcgg ctg 23

<210> 146
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<220>
<223> 5' IgH Arm1 retention assay forward primer

<400> 146
aggatgctgg gaaacagac 19

<210> 147
<211> 20
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gaccactctc aggactctca 20

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<210> 150
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<210> 151
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<210> 152
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<210> 153
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<400> 153
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<210> 154
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<212> DNA
<213> Artificial Sequence

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<400> 154
tcaccatccc cccctccttt gc 22

<210> 155

<211> 22
<212> DNA
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<220>
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<400> 155
ggtcatgtgg caaggctatt tg 22

<210> 156
<211> 21
<212> DNA
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<220>
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<400> 156
agcctggact ttcggtttgg t 21

<210> 157
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<220>
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<400> 157
ccactaggta aacttgtagc tgtggtttga 30

<210> 158
<211> 17
<212> DNA
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<223> mIgHp2 parental forward primer

<400> 158
gccatgcaag gccaagc 17

<210> 159
<211> 24
<212> DNA
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<220>
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<400> 159
agttcttgag ccttagggtg ctag 24

<210> 160
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
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<400> 160
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<210> 161
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<212> DNA
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<220>
<223> mIgKd2 parental forward primer

<400> 161
gcaaacaaaa accactggcc 20

<210> 162
<211> 19
<212> DNA
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<220>
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<400> 162
ggccacattc catgggttc 19

<210> 163
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
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<400> 163
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<210> 164
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> hIgK5 parental forward primer

<400> 164
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<210> 165
<211> 19
<212> DNA
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<220>
<223> hIgK5 parental reverse primer

<400> 165
tgcaagtgct gccagcaag 19

<210> 166
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<220>
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<400> 166
tcatgtccat taacccattt acctttgcc ca 32

<210> 167
<211> 21
<212> DNA
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<220>
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<400> 167
gactactacg gtatggacgt c 21

<210> 168
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<212> DNA
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<220>
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<400> 168
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<210> 169
<211> 20
<212> DNA
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<220>
<223> 5' gRNA_I DNA-targeting sequence

<400> 169
gaagctgact agtttacgca 20

<210> 170
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<223> 5' gRNA_II DNA-targeting sequence

<400> 170
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<210> 171
<211> 23
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<220>
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<400> 171
ctgagcatac tgctgcctaa cac 23

<210> 172
<211> 25
<212> DNA
<213> Artificial Sequence

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<223> 5' IgH Arm2 retention assay reverse primer

<400> 172
gagcagtgca tttcttagtt aagga 25

<210> 173
<211> 26
<212> DNA

<213> Artificial Sequence

<220>
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<400> 173
tgaaatggca gttcttctcc agctgg 26

<210> 174
<211> 20
<212> DNA
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<220>
<223> 3' IgH Arm1 retention assay forward primer

<400> 174
ggtggagtcc ctggatgatg 20

<210> 175
<211> 21
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<220>
<223> 3' IgH Arm1 retention assay reverse primer

<400> 175
atccctccag ccataggatt g 21

<210> 176
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' IgH Arm1 retention assay probe

<400> 176
ctttggaggc tcatttgagg gagatgct 28