SEQUENCE LISTING

<110> THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
GILL, Saar
KIM, Miriam

<120> METHODS AND COMPOSITIONS FOR GENE EDITING IN HEMATOPOIETIC STEM CELLS

<130> 046483-7095WO1(01230)

<150> PCT/US2016/060273
<151> 2016-11-03

<150> US 62/250,561
<151> 2015-11-04

<160> 10

<170> PatentIn version 3.5

<210> 1
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Primer (CD33Forward)

<400> 1
agctgcttcc tcagacatgc 20

<210> 2
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Primer (CD33Reverse)

<400> 2
ctgtatttgg tacttcctct ctcca 25

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> CD33 gRNA

<400> 3
gagtcagtga cggtacagga 20

<210> 4
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> CD33 gRNA + PAM + overhangs

<400> 4
gcaggagtca gtgacggtac aggagggttt gtgcgtcc 38

<210> 5
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> ss oligo- HDR repair template

<400> 5
gcaggagtca gtgacggtac aaggagggtt tgtgcgtcc 39

<210> 6
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially generated sequence

<400> 6
gcaggagtca gtgacggtag gagggtttgt gcgtcc 36

<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially generated sequence

<400> 7
gcaggagtca gtgacggtgc gtcc 24

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially generated sequence

<400> 8
gcaggagtca gtgacgtgcg tcc 23

<210> 9
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially generated sequence

<400> 9
gcaggaggtt tgtgcgtcc 19

<210> 10
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificially generated sequence

<400> 10
gcaggagtca gtgcgtcc 18