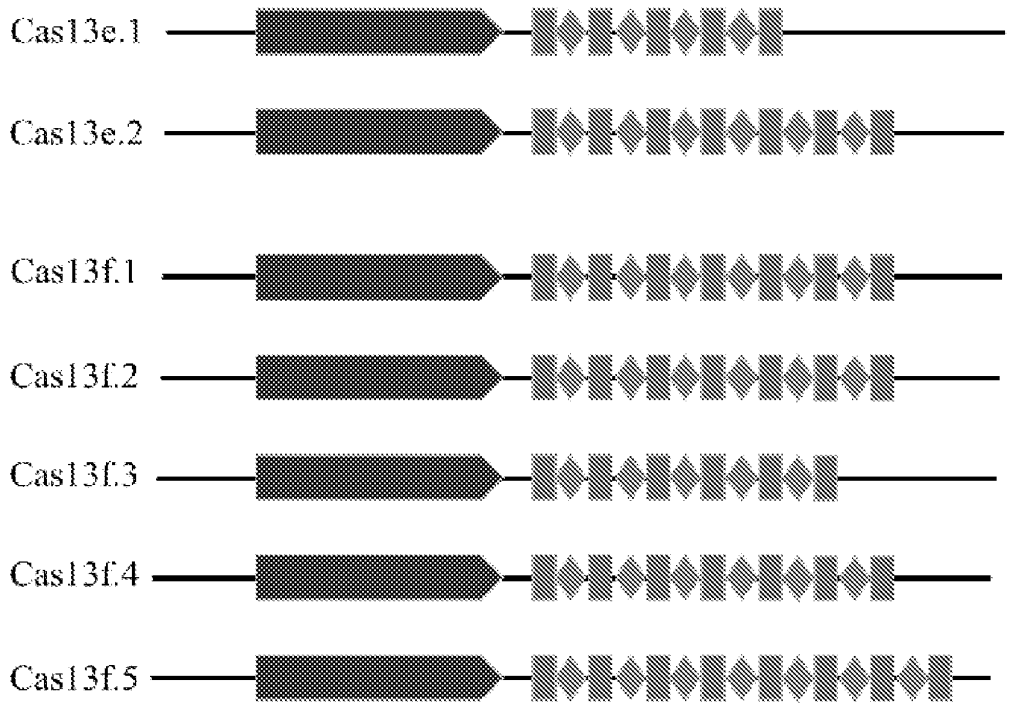
Cas13e.1
Cas13e.2
Cas13f.1
Cas13f.2
Cas13f.3
Cas13f.4
Cas13f.5

FIG. 1

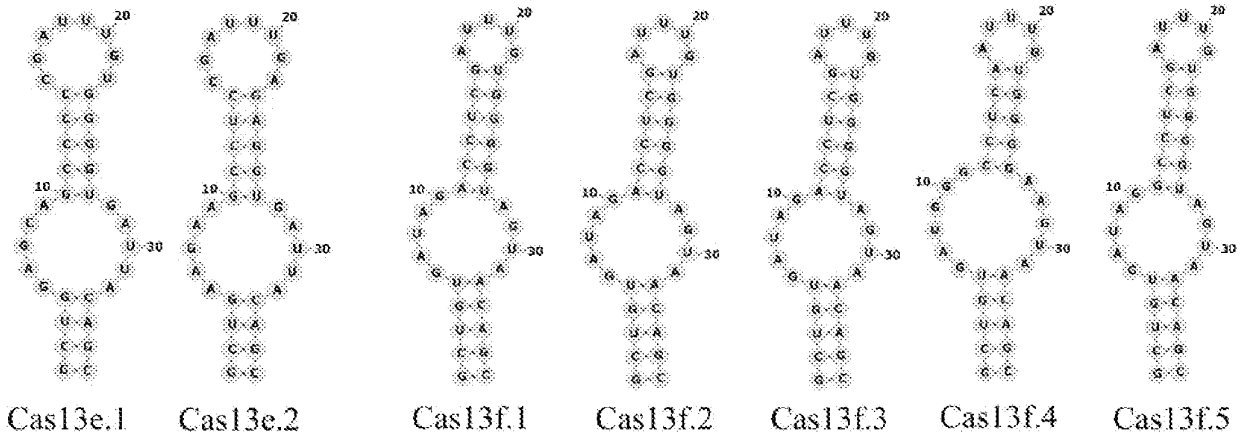
Cas13e.1
Cas13e.2
Cas13f.1
Cas13f.2
Cas13f.3
Cas13f.4
Cas13f.5

FIG. 2

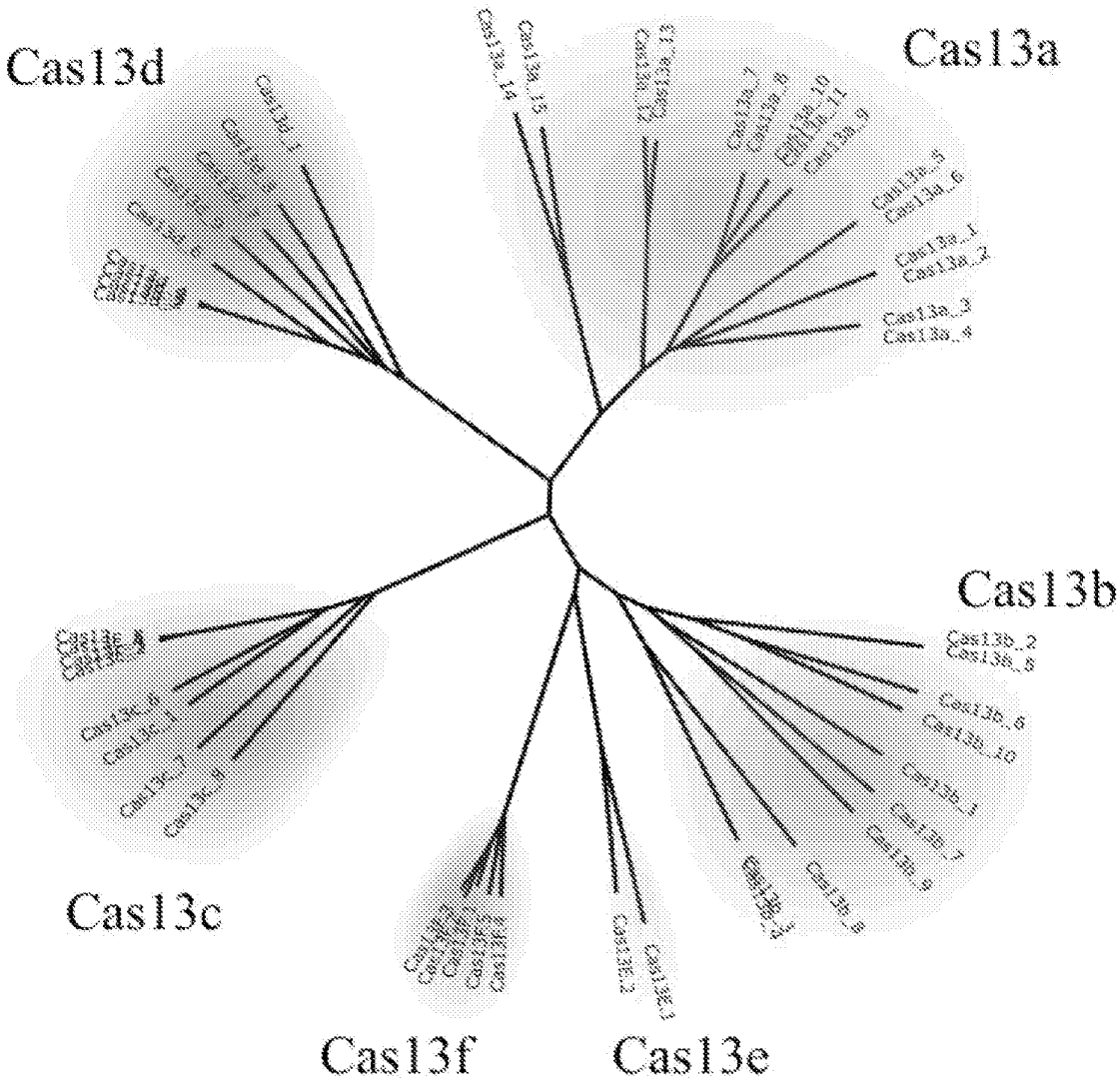
Cas13d
Cas13a
Cas13b
Cas13c
Cas13f
Cas13e
Cas13a_15
Cas13a_14
Cas13a_7
Cas13a_8
Cas13a_10
Cas13a_11
Cas13a_9
Cas13a_5
Cas13a_6
Cas13a_1
Cas13a_2
Cas13a_3
Cas13a_4
Cas13b_2
Cas13b_5
Cas13b_6
Cas13b_10
Cas13b_1
Cas13b_7
Cas13b_8
Cas13b_9
Cas13b_4
Cas13e_2
Cas13e_1

FIG. 3

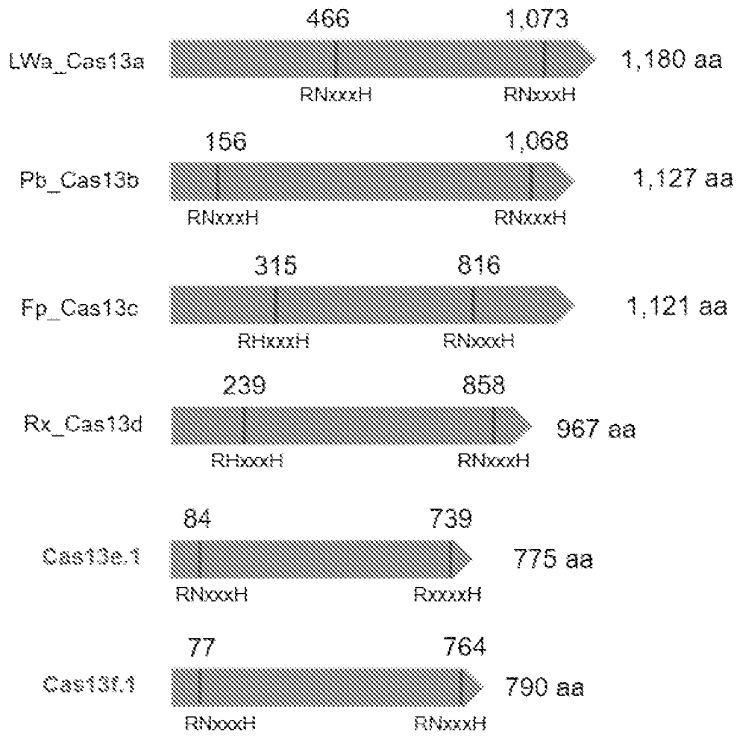
LWa_Cas13a
466
1,073
1,180 aa
RNxxxH
RNxxxH
Pb_Cas13b
156
1,068
1,127 aa
RNxxxH
RNxxxH
Fp_Cas13c
315
816
1,121 aa
RHxxxH
RNxxxH
Rx_Cas13d
239
858
967 aa
RHxxxH
RNxxxH
Cas13e.1
84
739
775 aa
RNxxxH
RxxxxH
Cas13f.1
77
764
790 aa
RNxxxH
RNxxxH

FIG. 4

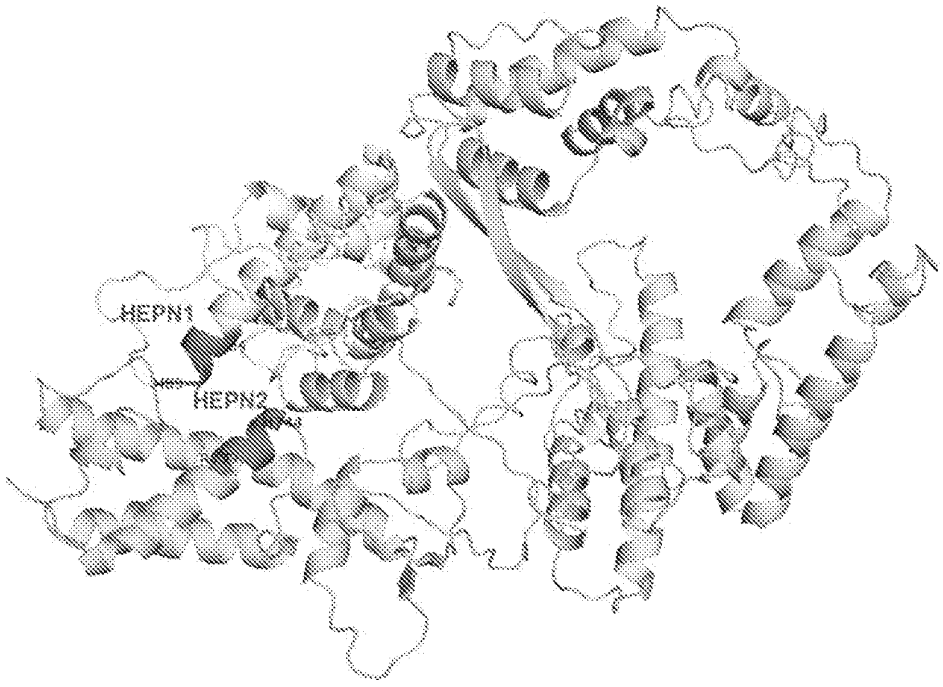
HEPN1
HEPN2

FIG. 5

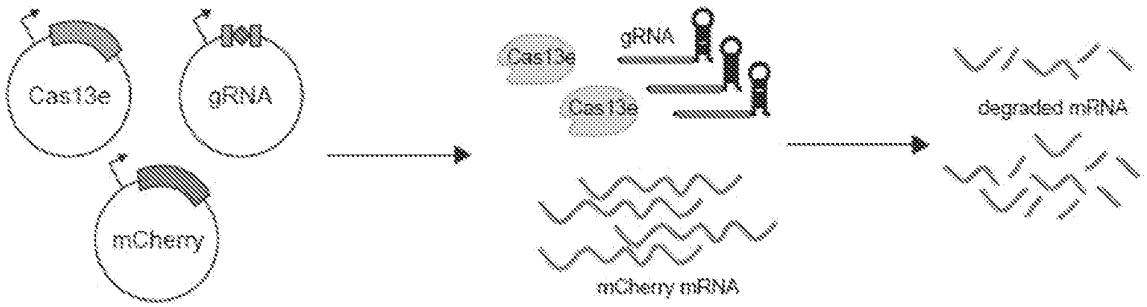

FIG. 6

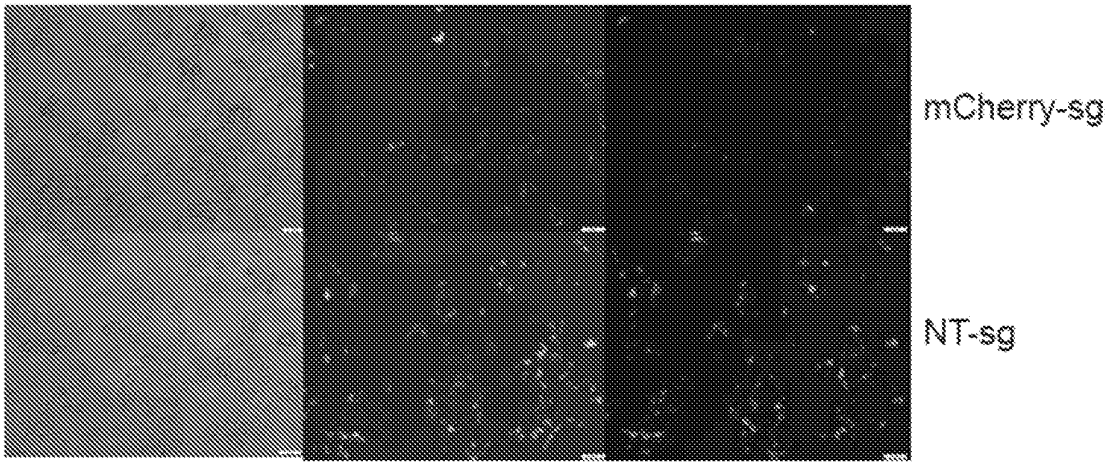

FIG. 7

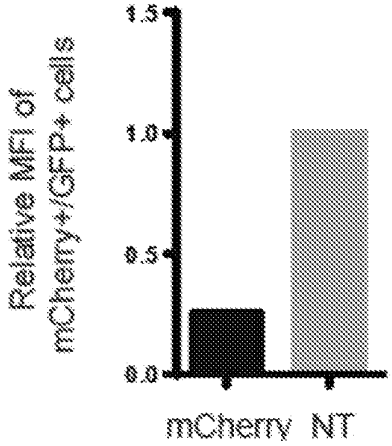

FIG. 8

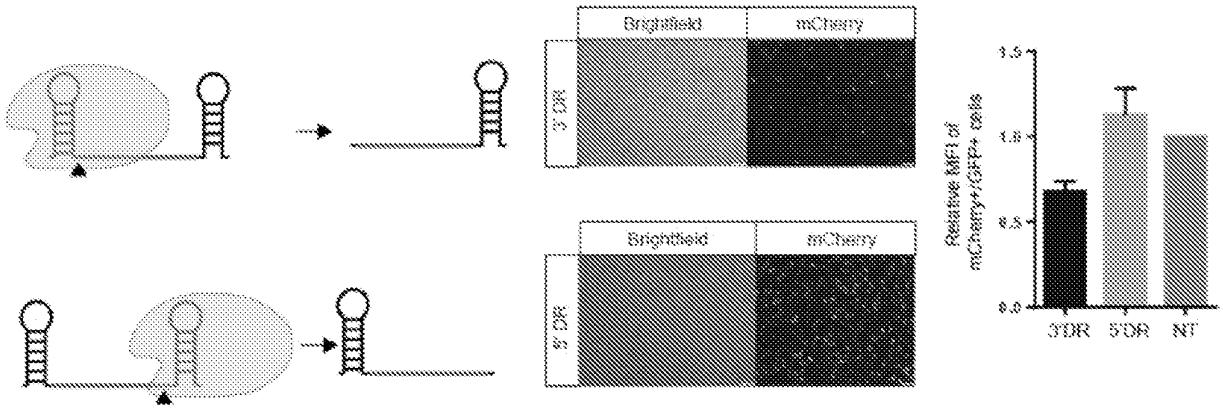

FIG. 9

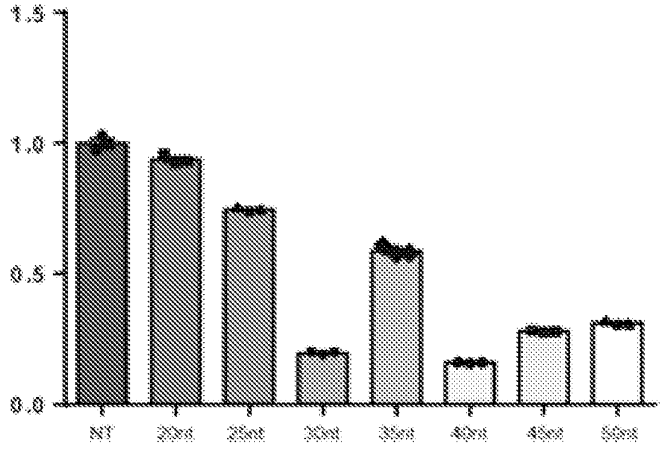

FIG. 10

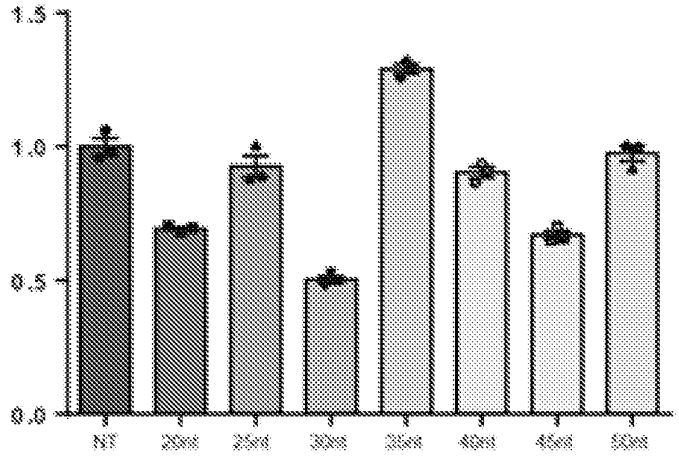

FIG. 11

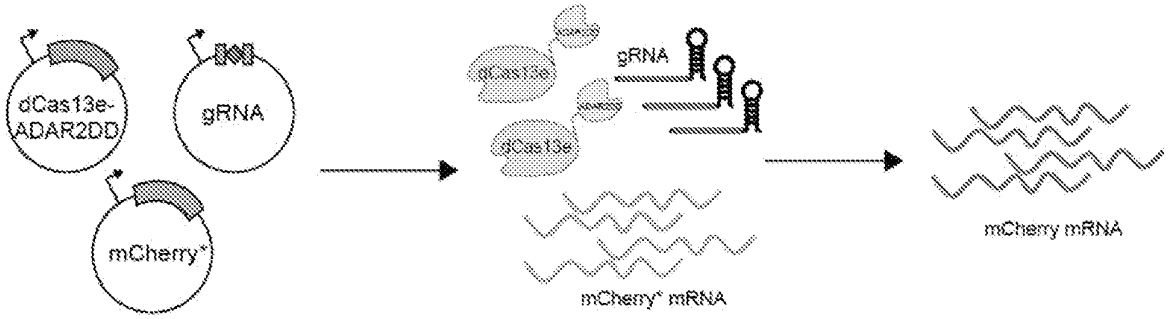

FIG. 12

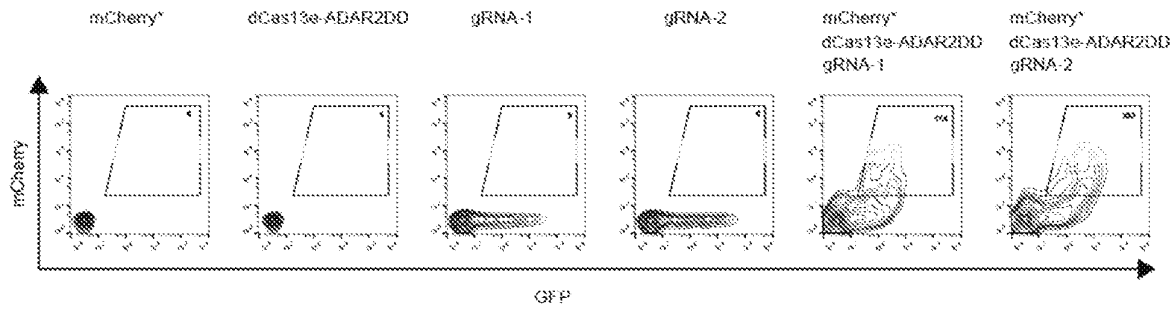

FIG. 13

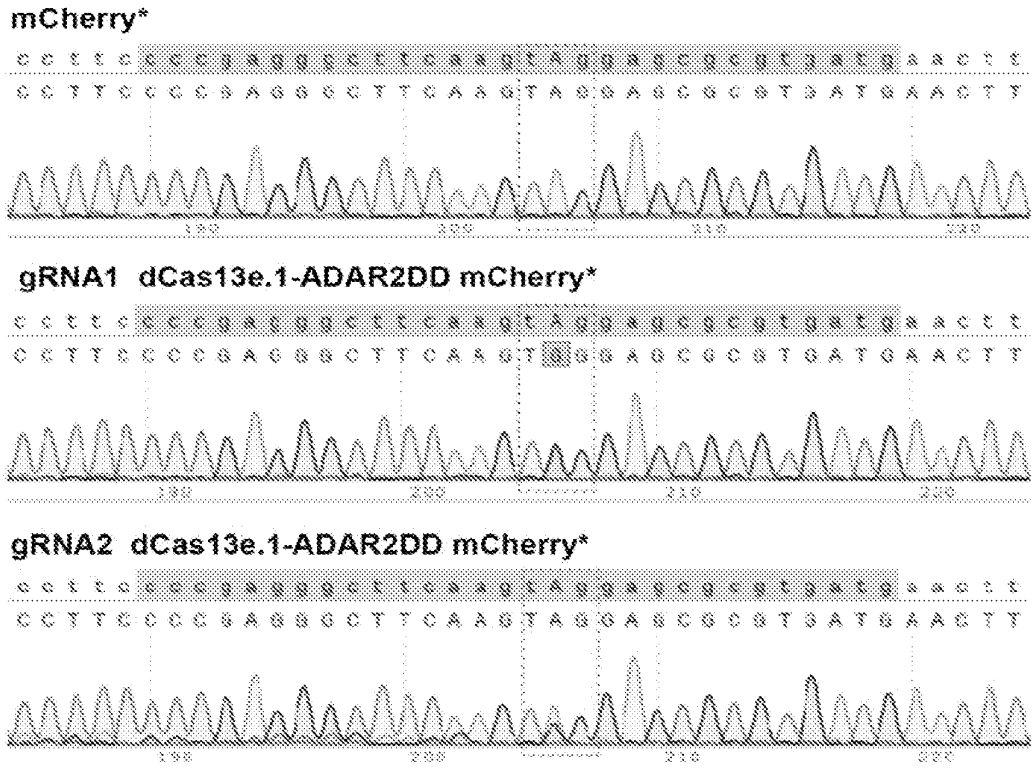

FIG. 14

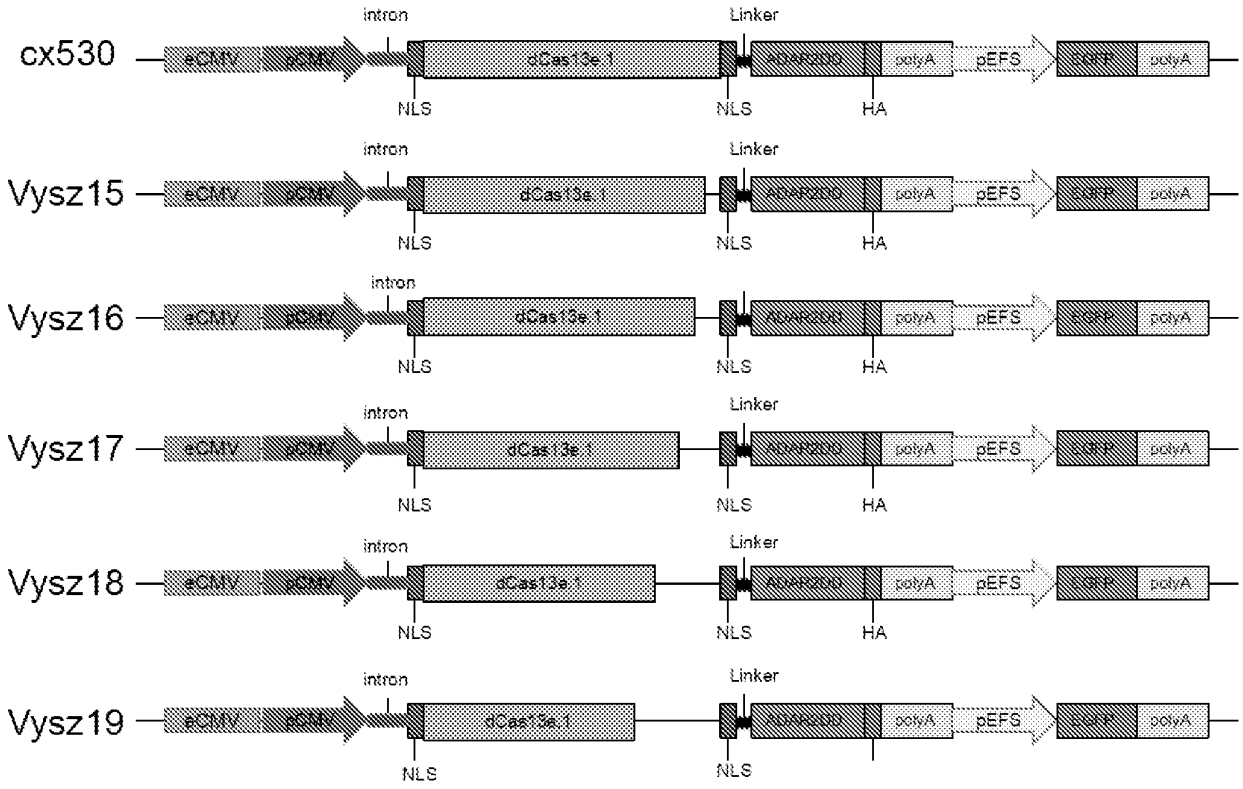
cx530
Vysz15
Vysz16
Vysz17
Vysz18
Vysz19
eCMV
pCMV
intron
dCas13e.1
Linker
ADAR2DD
polyA
pEFS
mCherry
NLS
HA

FIG. 15

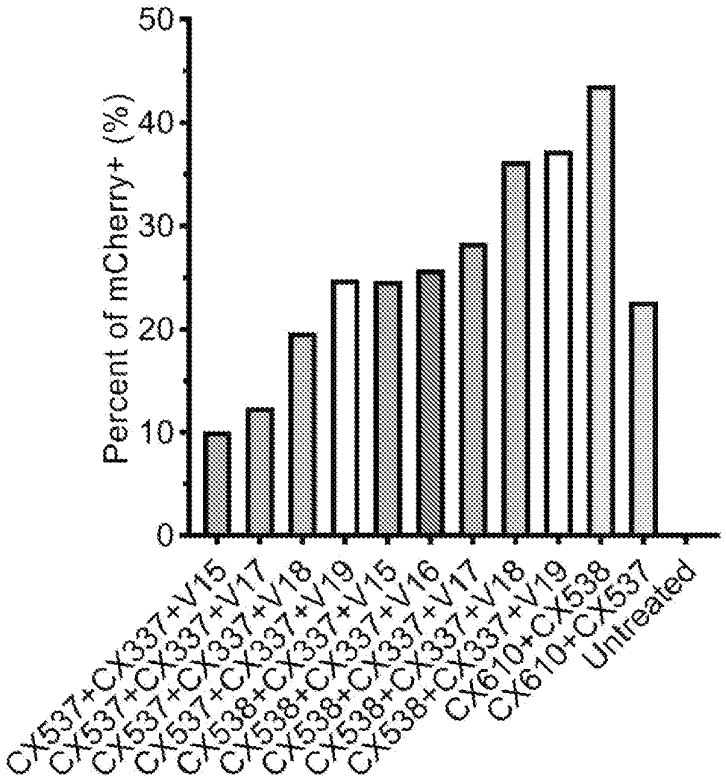
Percent of mCherry+ (%)
50
40
30
20
10
0
CX537+CX337+V15
CX537+CX337+V17
CX537+CX337+V18
CX537+CX337+V19
CX538+CX337+V15
CX538+CX337+V16
CX538+CX337+V17
CX538+CX337+V18
CX538+CX337+V19
CX610+CX538
CX610+CX537
Untreated

FIG. 16

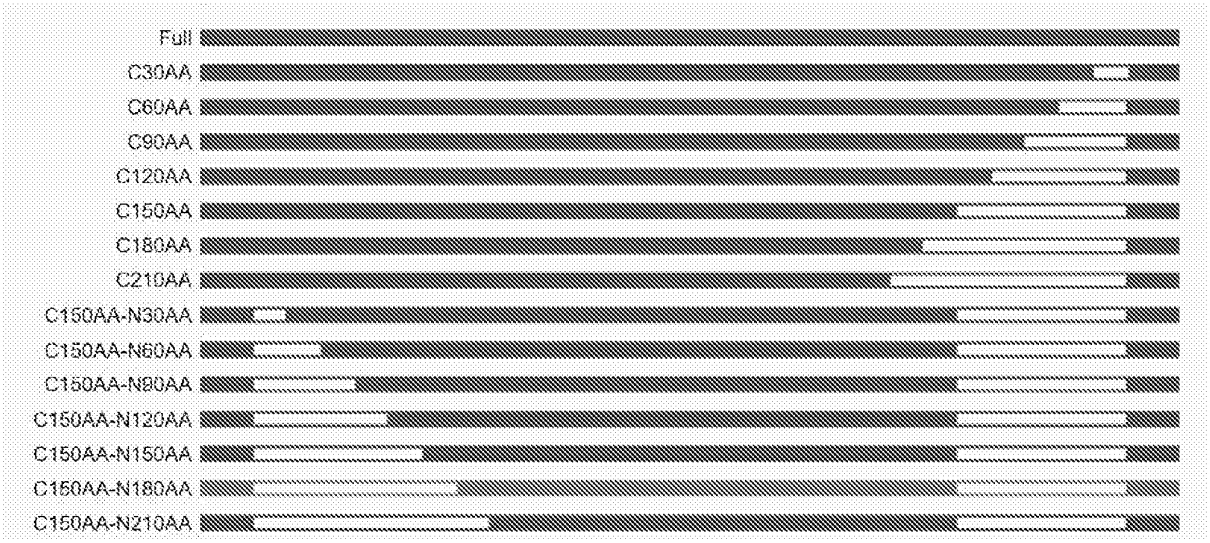
Full
C30AA
C60AA
C90AA
C120AA
C150AA
C180AA
C210AA
C150AA-N30AA
C150AA-N60AA
C150AA-N90AA
C150AA-N120AA
C150AA-N150AA
C150AA-N180AA
C150AA-N210AA

FIG. 17

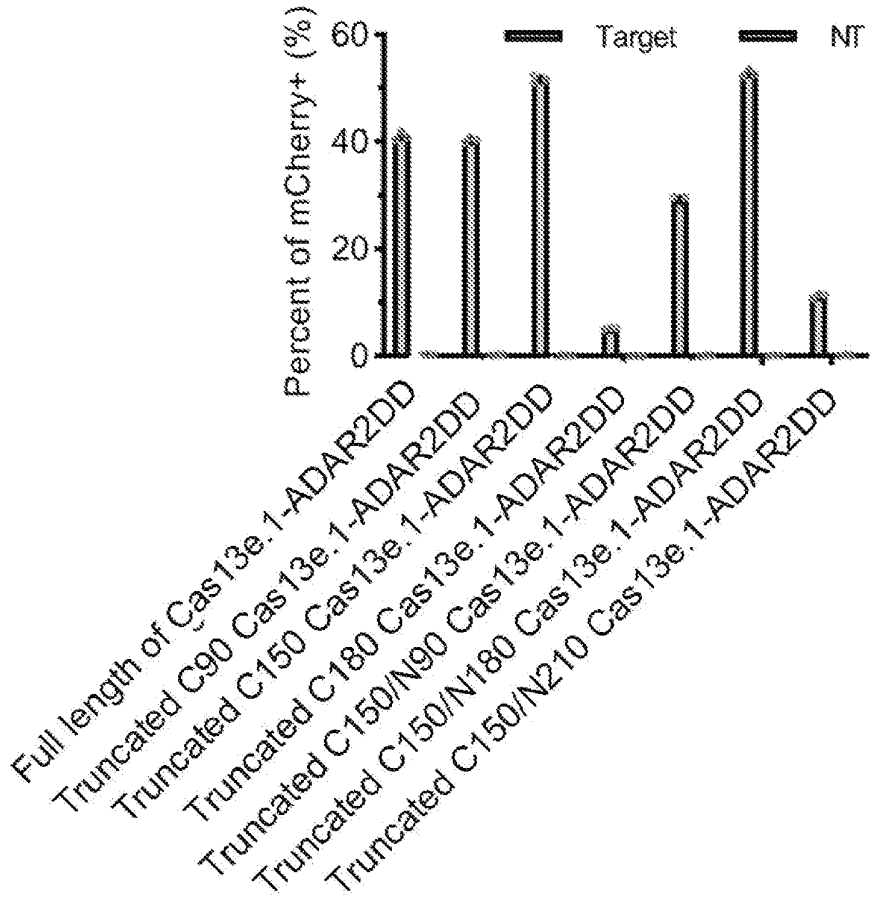
Percent of mCherry+ (%)
60
40
20
0
Target
NT
Full length of Cas13e.1-ADAR2DD
Truncated C90 Cas13e.1-ADAR2DD
Truncated C150 Cas13e.1-ADAR2DD
Truncated C180 Cas13e.1-ADAR2DD
Truncated C150/N90 Cas13e.1-ADAR2DD
Truncated C150/N180 Cas13e.1-ADAR2DD
Truncated C150/N210 Cas13e.1-ADAR2DD

FIG. 18

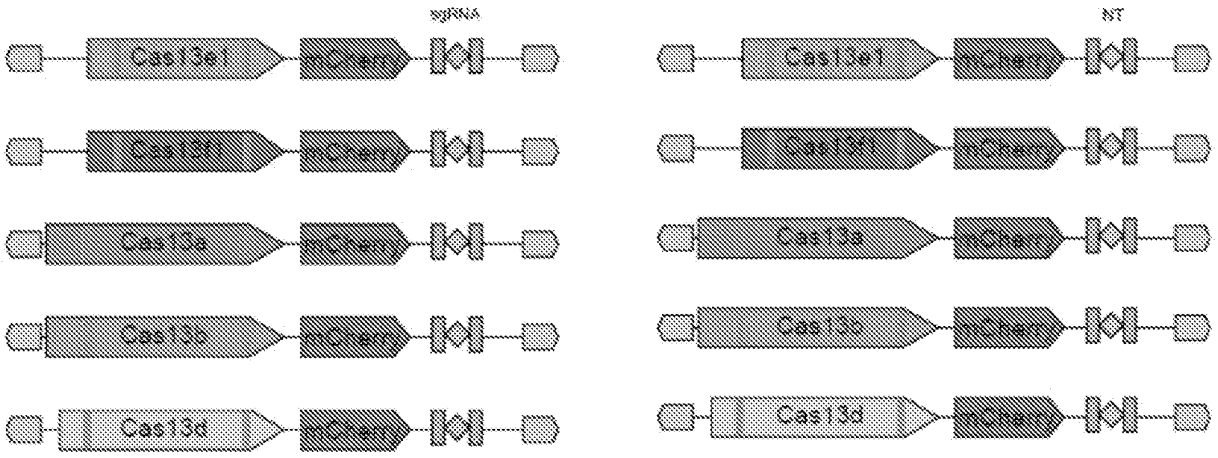
sgRNA
NT
Cas13e1
mCherry
Cas13f1
Cas13a
Cas13c
Cas13d

FIG. 19

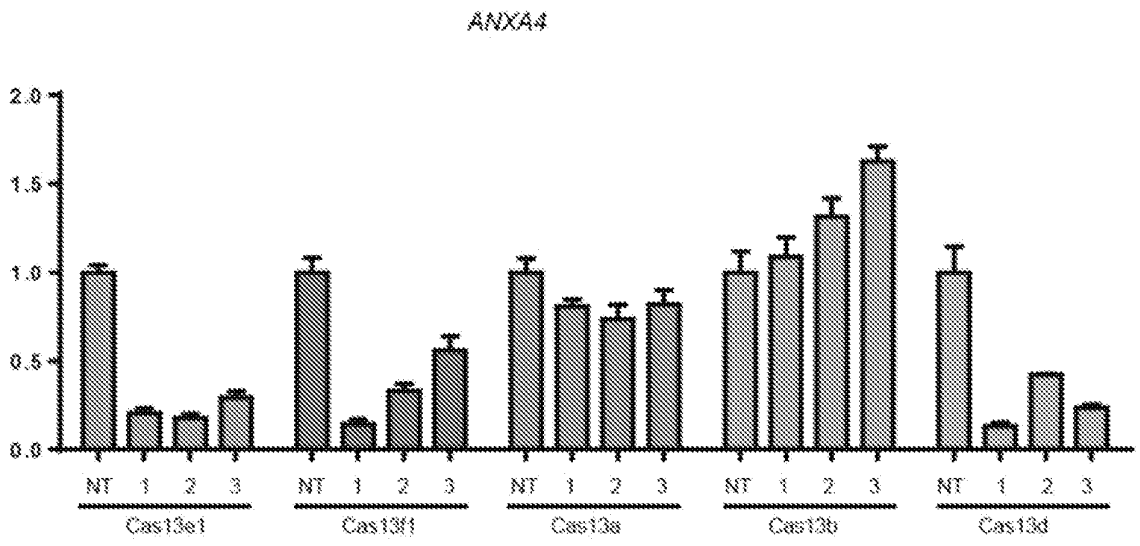
ANXA4
2.0
1.5
1.0
0.5
0.0
NT 1 2 3
Cas13e1
Cas13f1
Cas13a
Cas12b
Cas13d

FIG. 20