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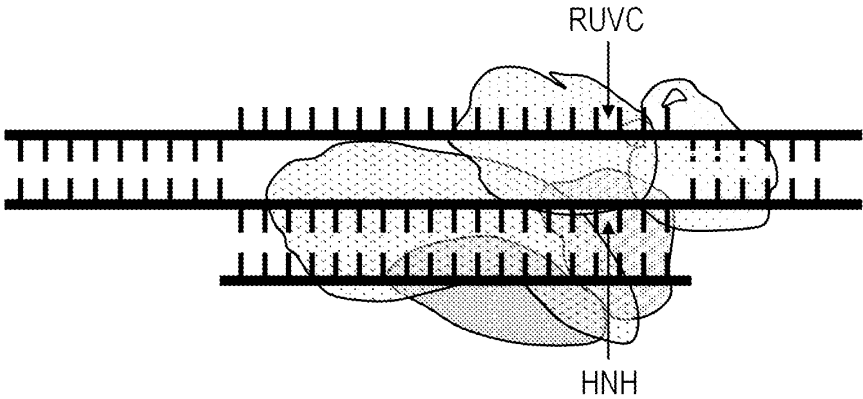


FIG. 1

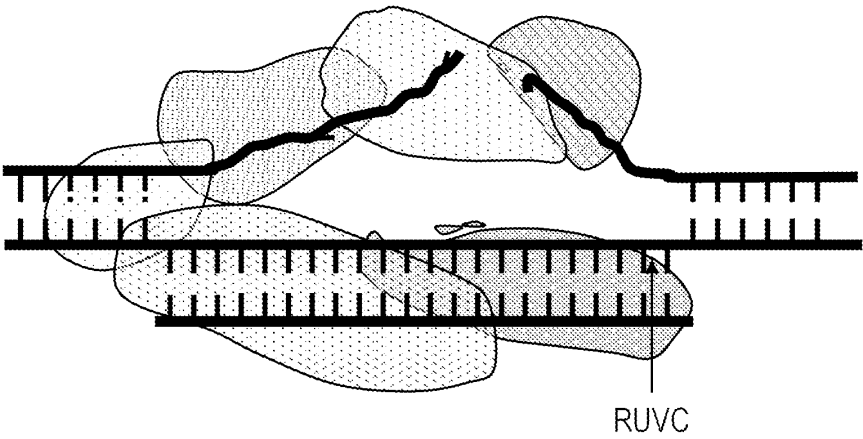
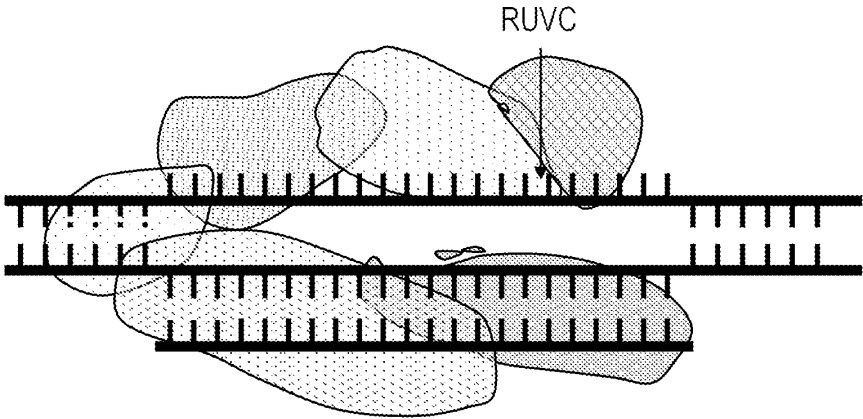


FIG. 2

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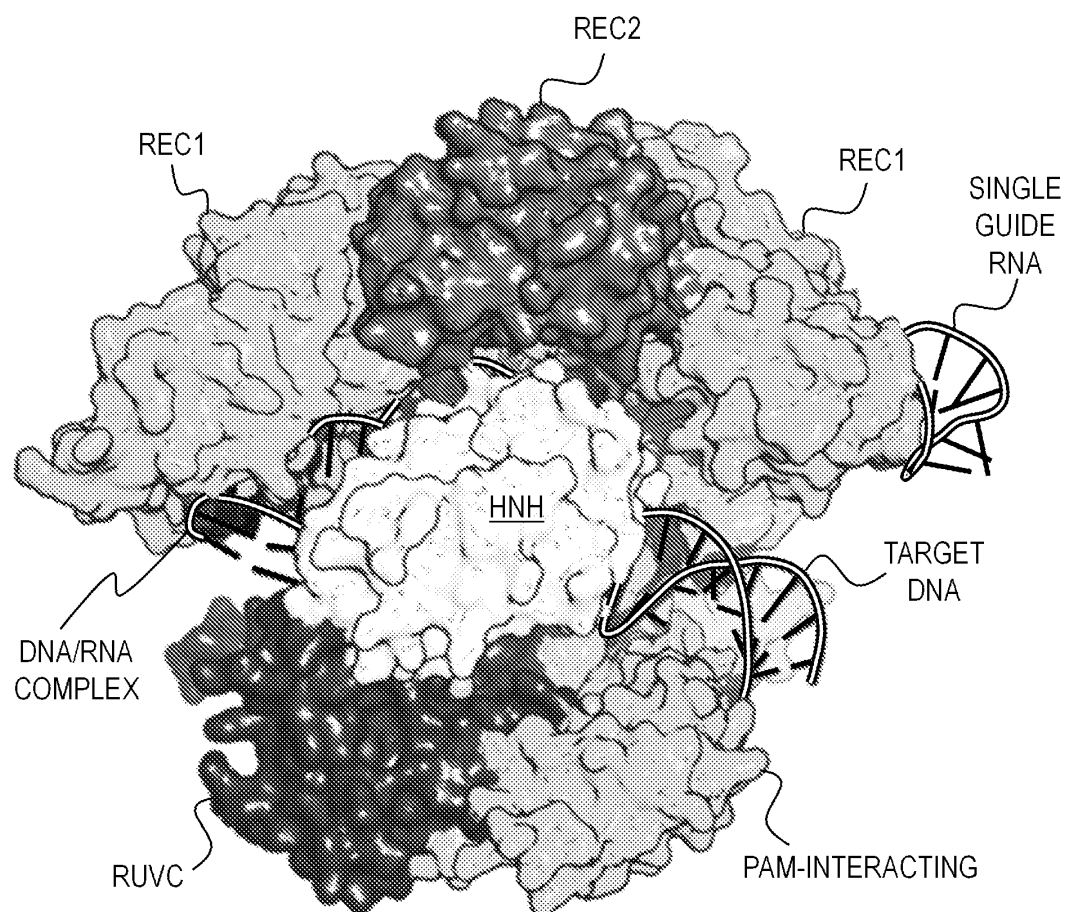
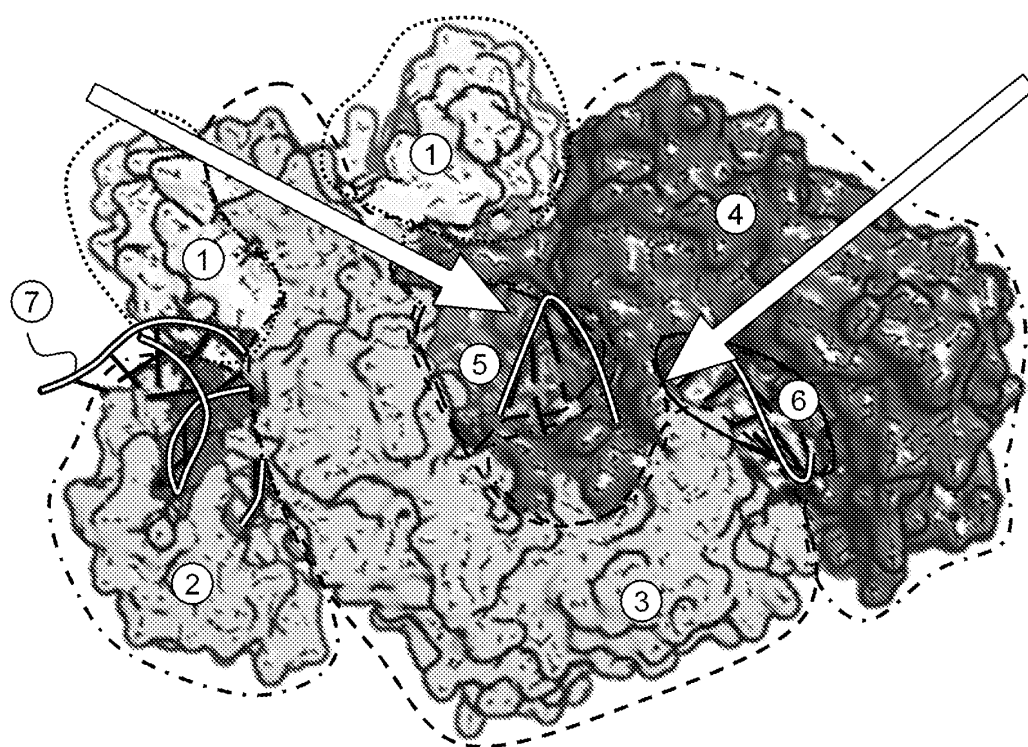


FIG. 3

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1. WEDGE DOMAIN
2. PAM-INTERACTING
3. REC1
4. REC2
5. RUVc
6. NUC
7. NUCLEIC ACID

FIG. 4

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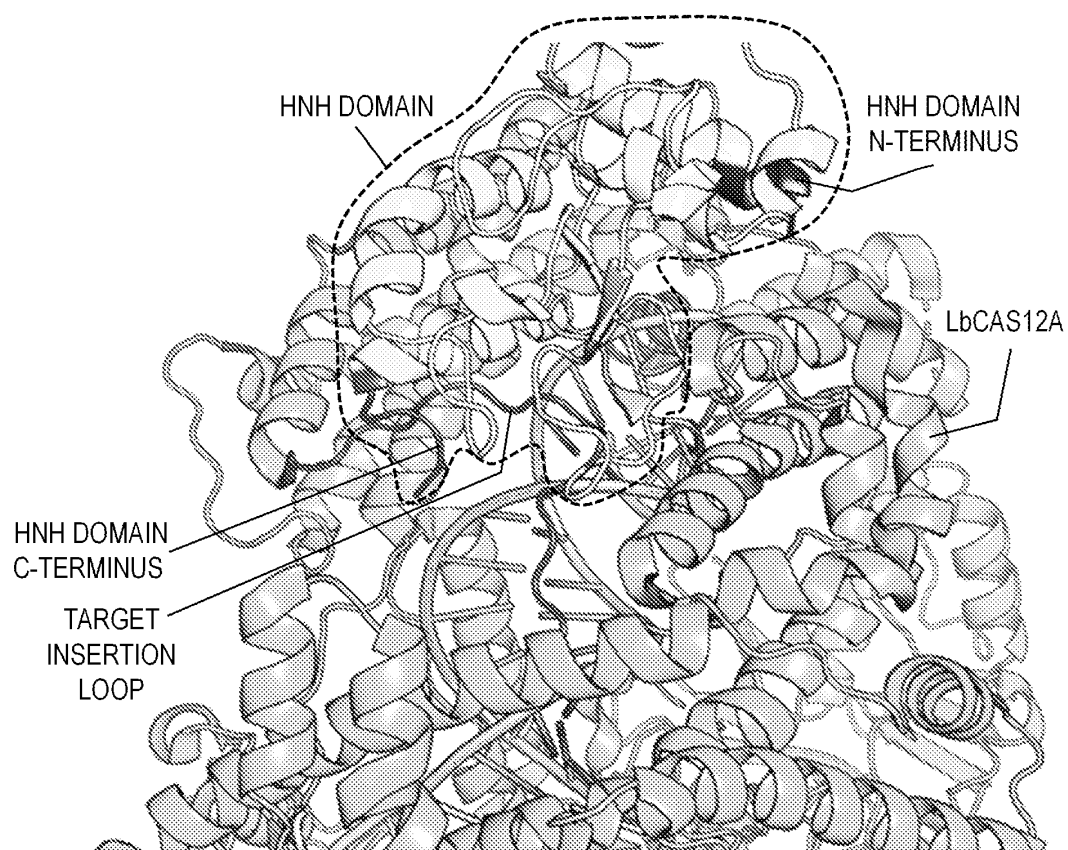


FIG. 5

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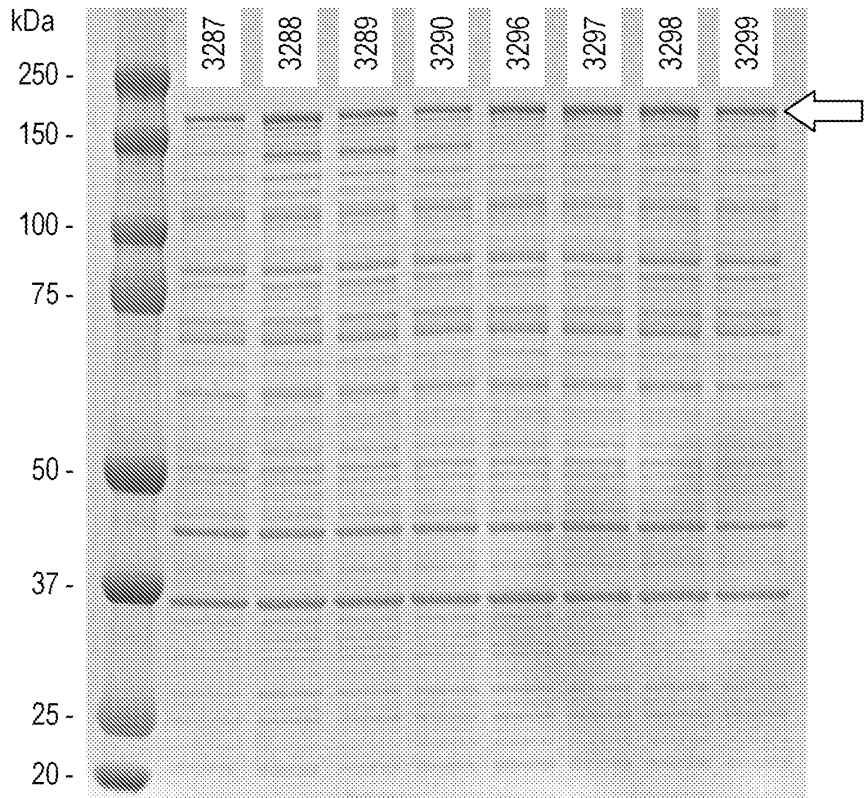


FIG. 6

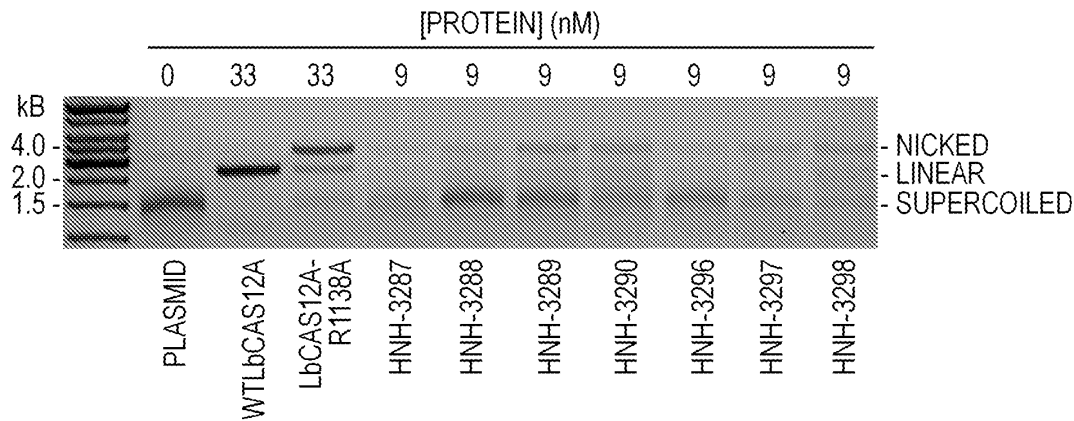


FIG. 7

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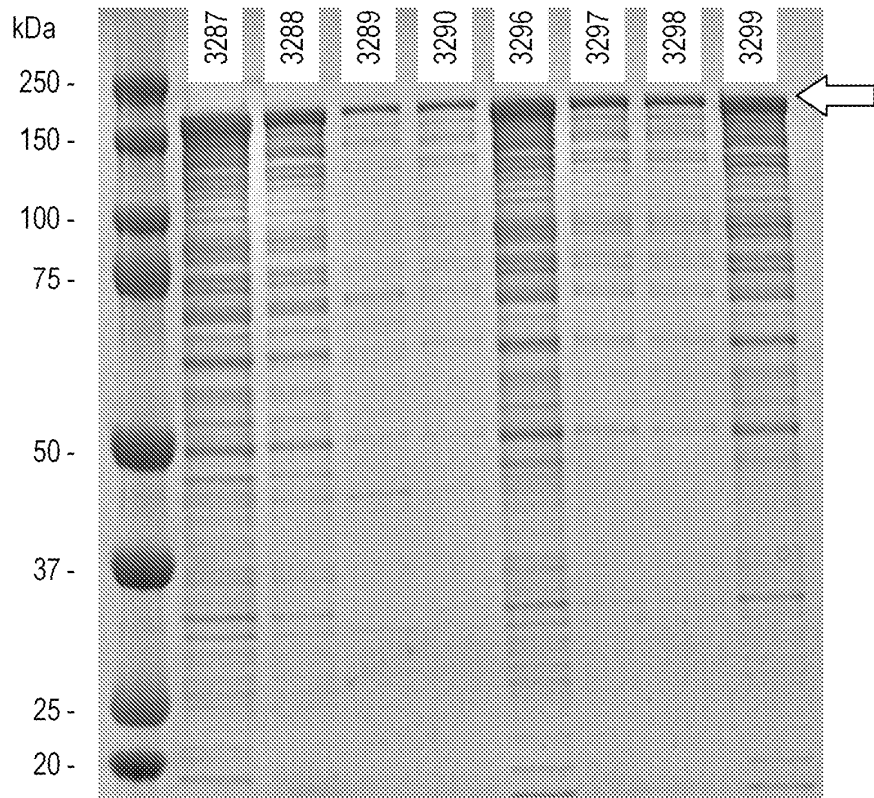


FIG. 8

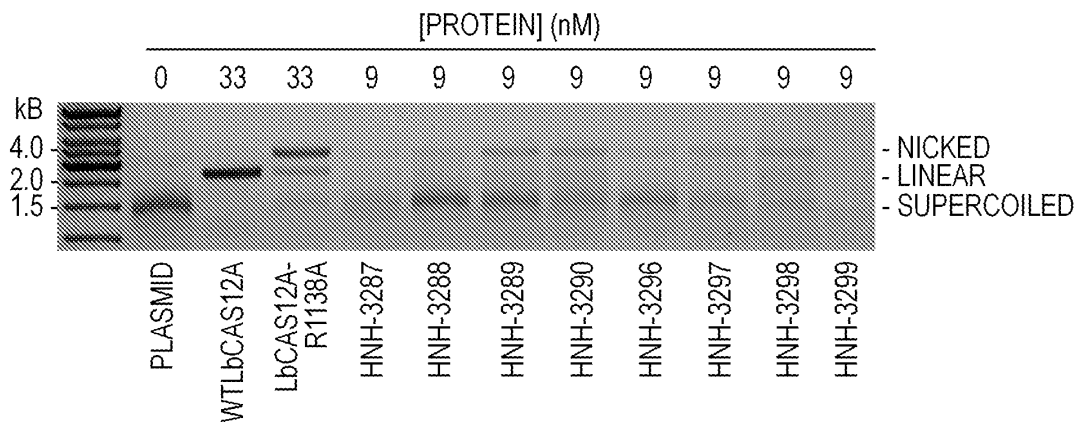


FIG. 9

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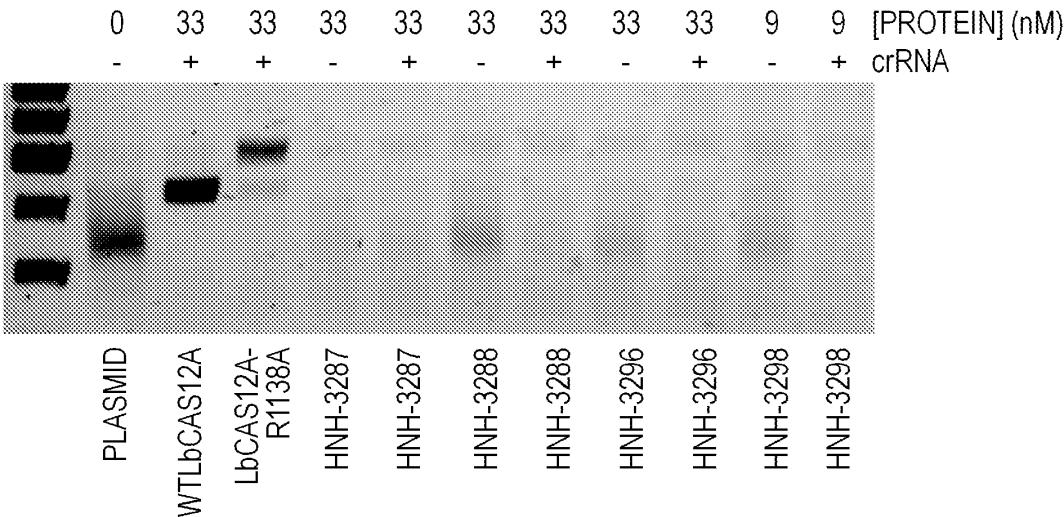


FIG. 10

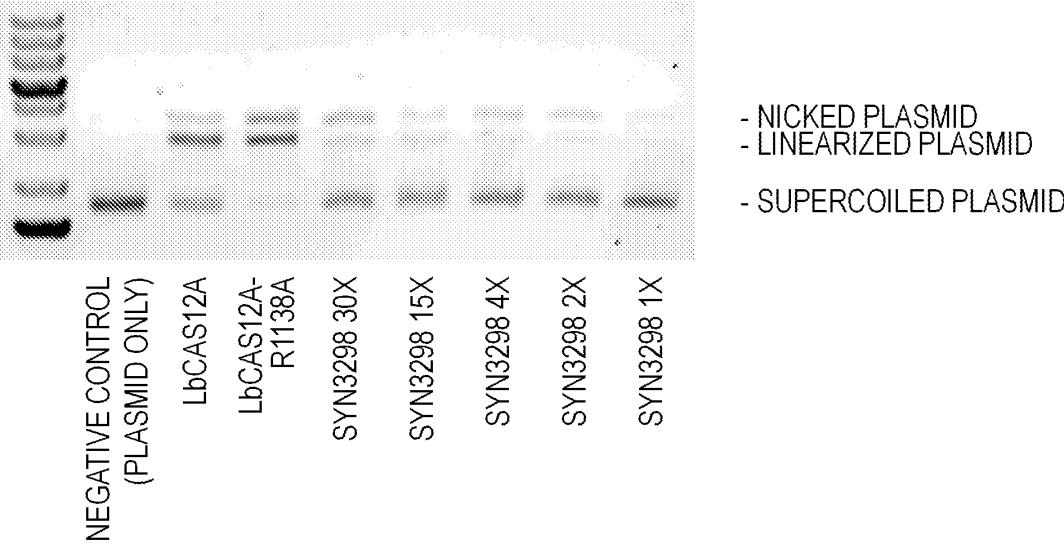


FIG. 11

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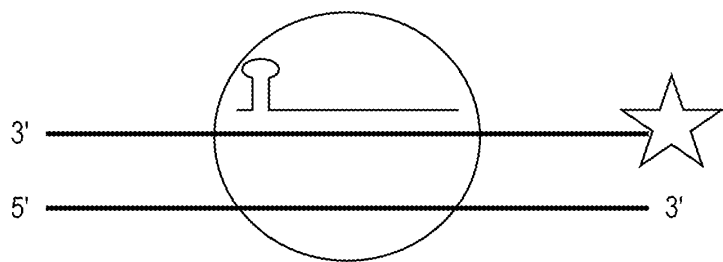


FIG. 12

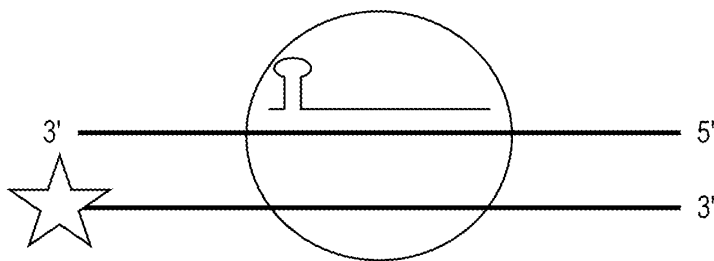


FIG. 13

TARGET STRAND LABELED

LbCAS12A
R1138A
SYN3298
SYN3289

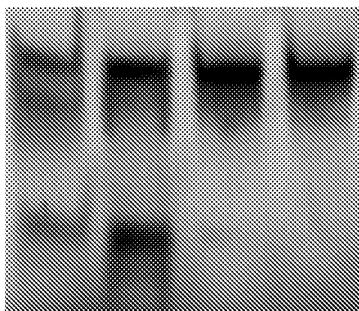


FIG. 14

NON-TARGET STRAND LABELED

LbCAS12A
R1138A
SYN3298
SYN3289

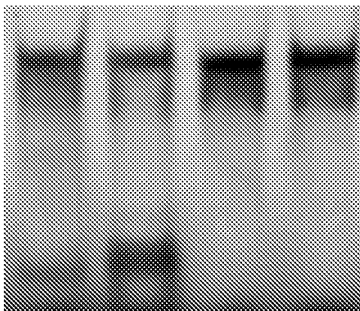


FIG. 15

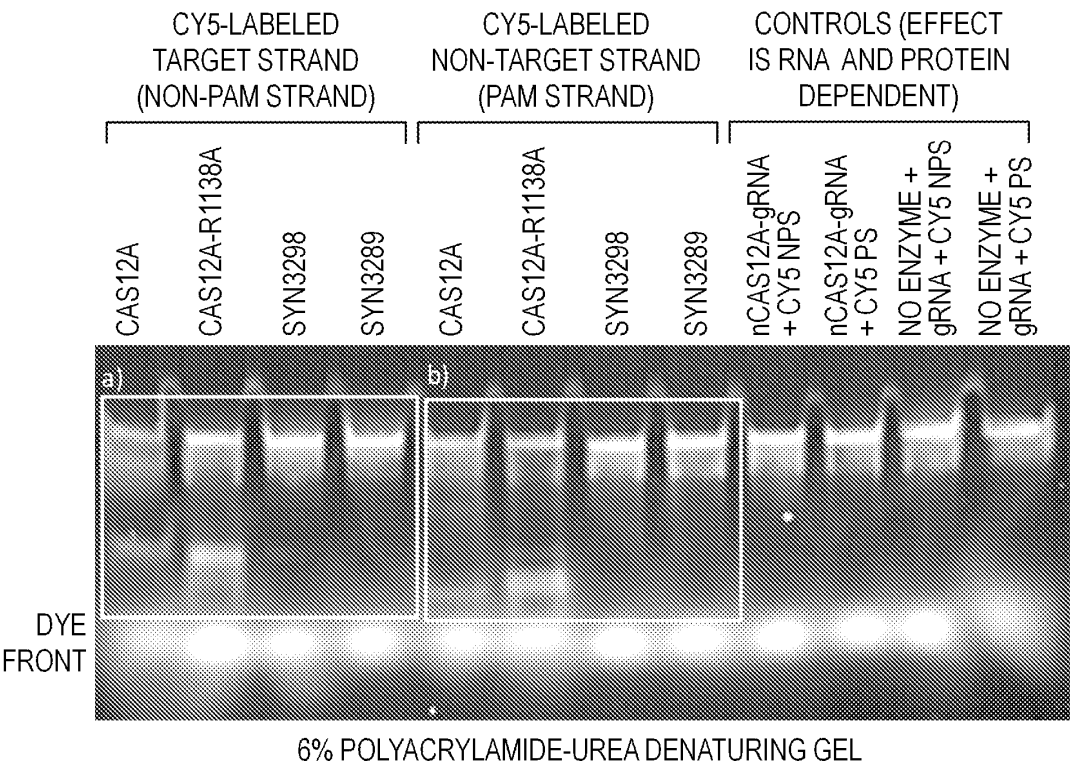


FIG. 16

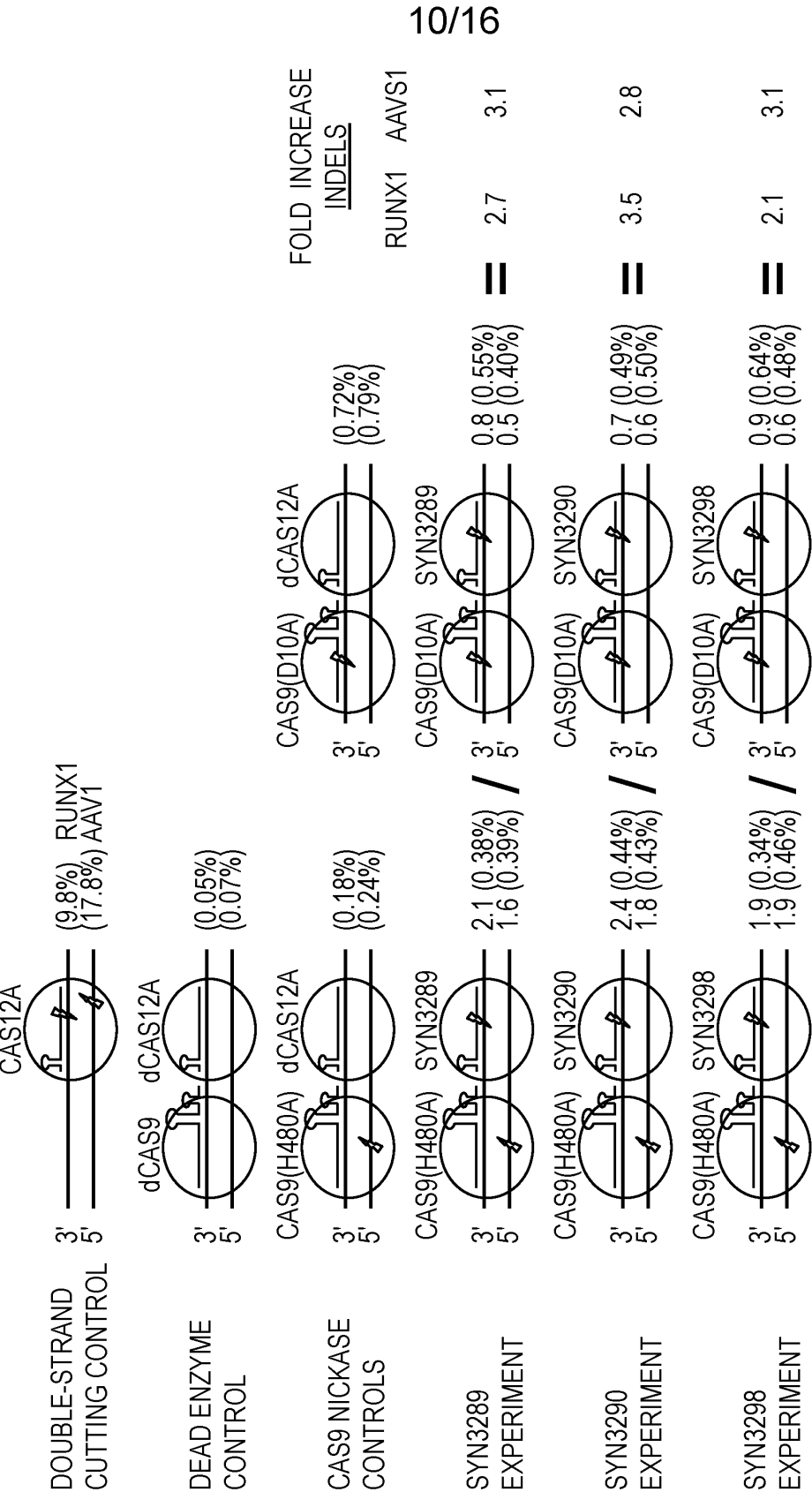


FIG. 17

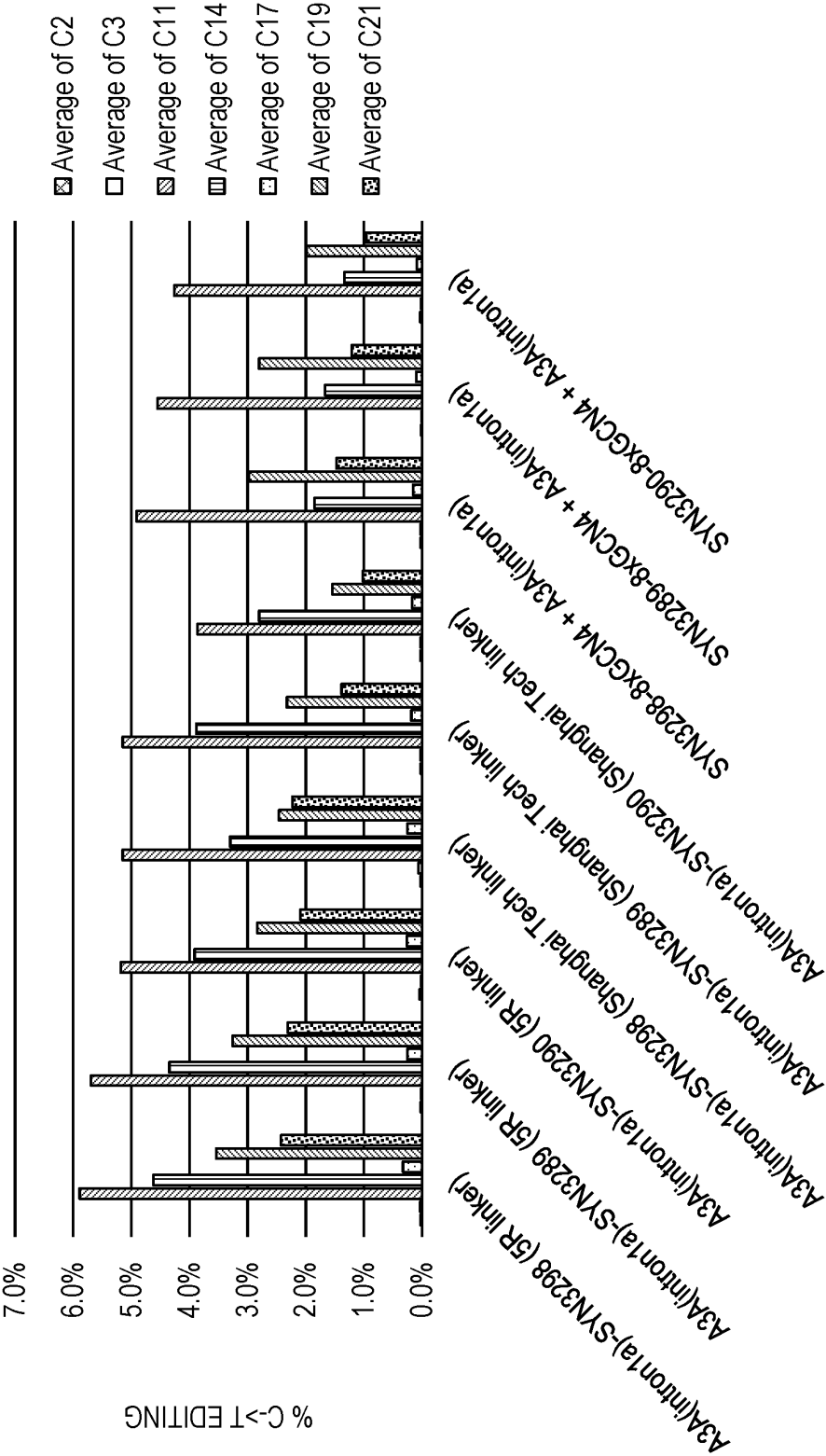
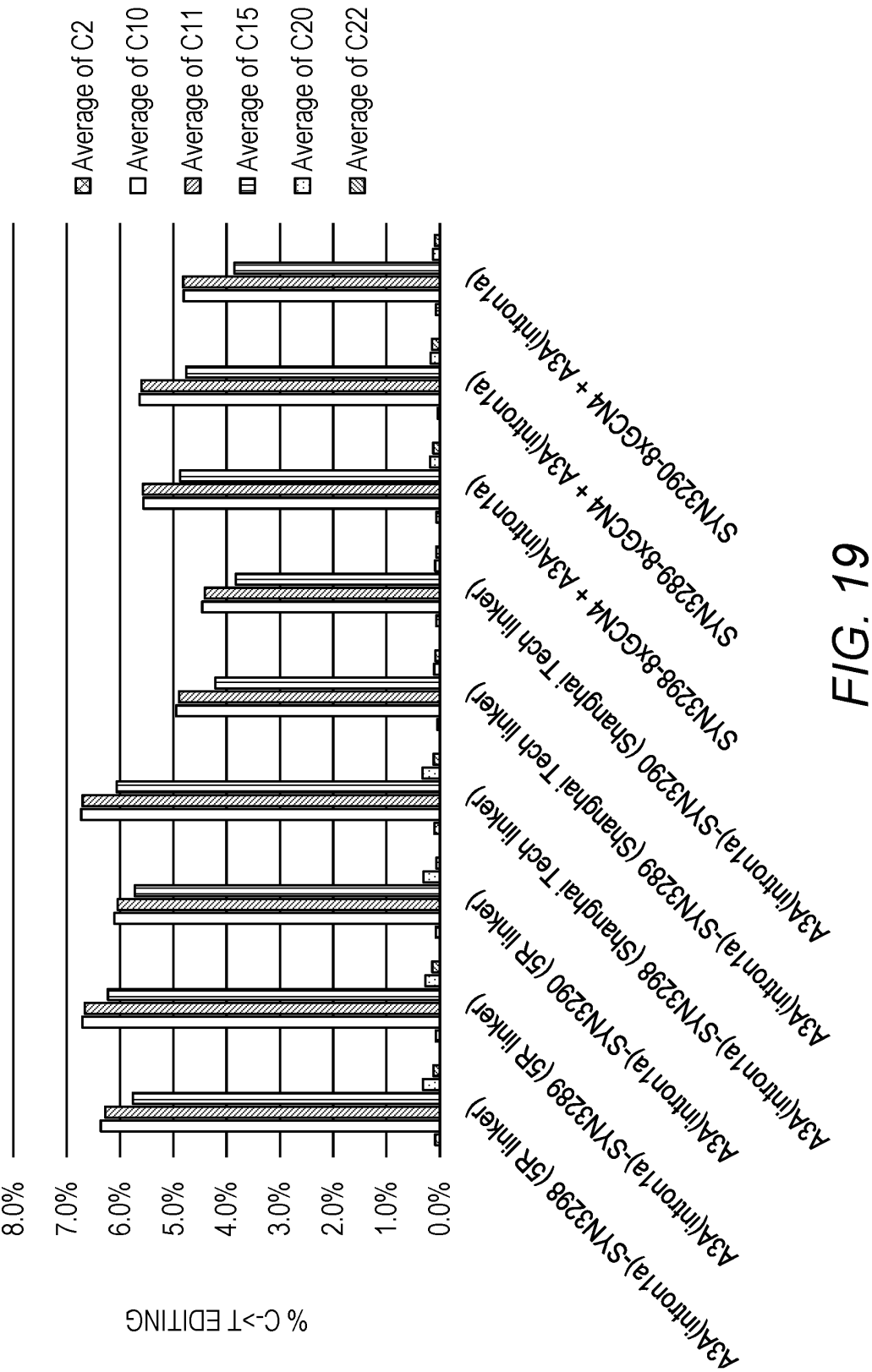


FIG. 18



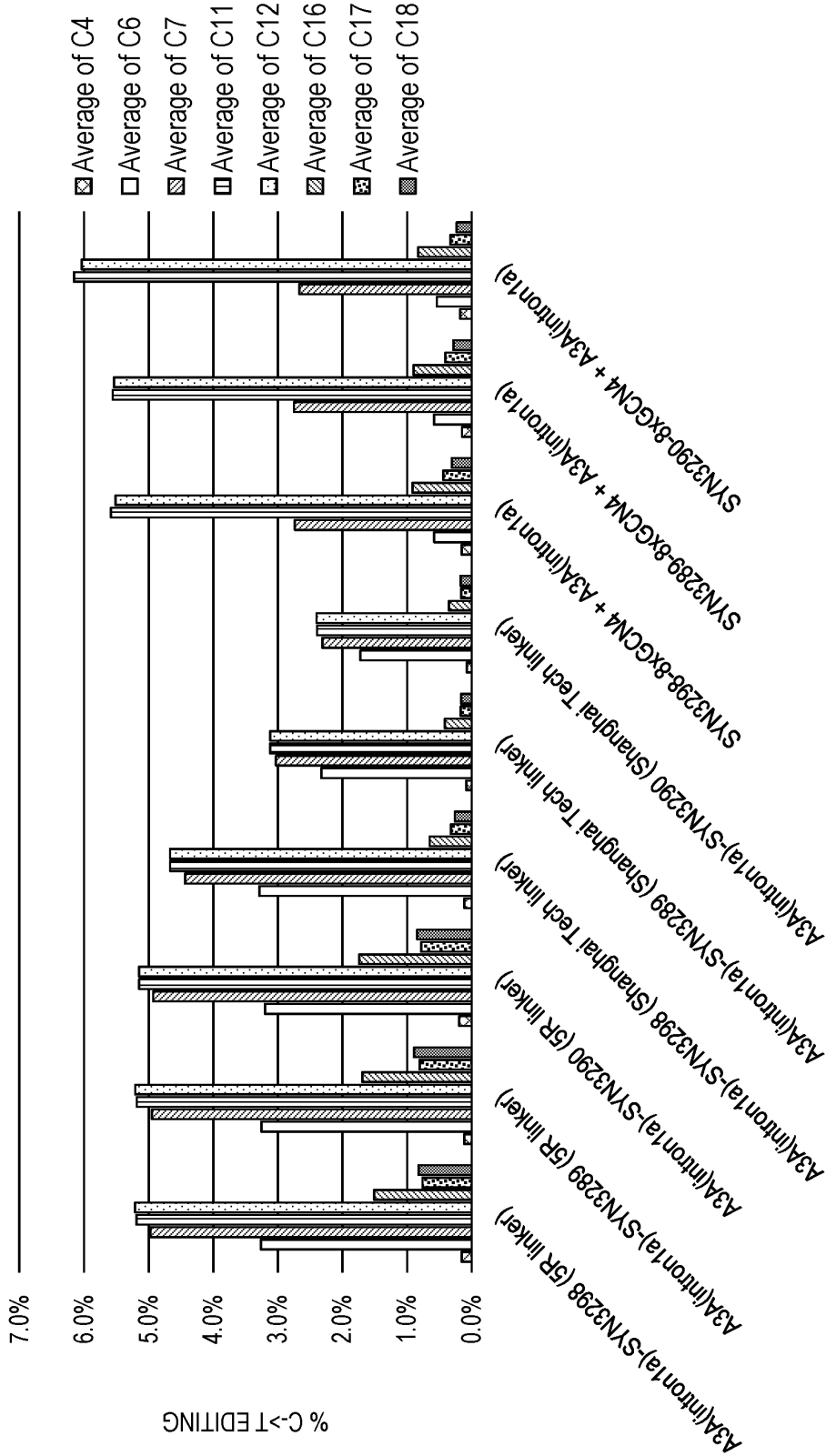


FIG. 20

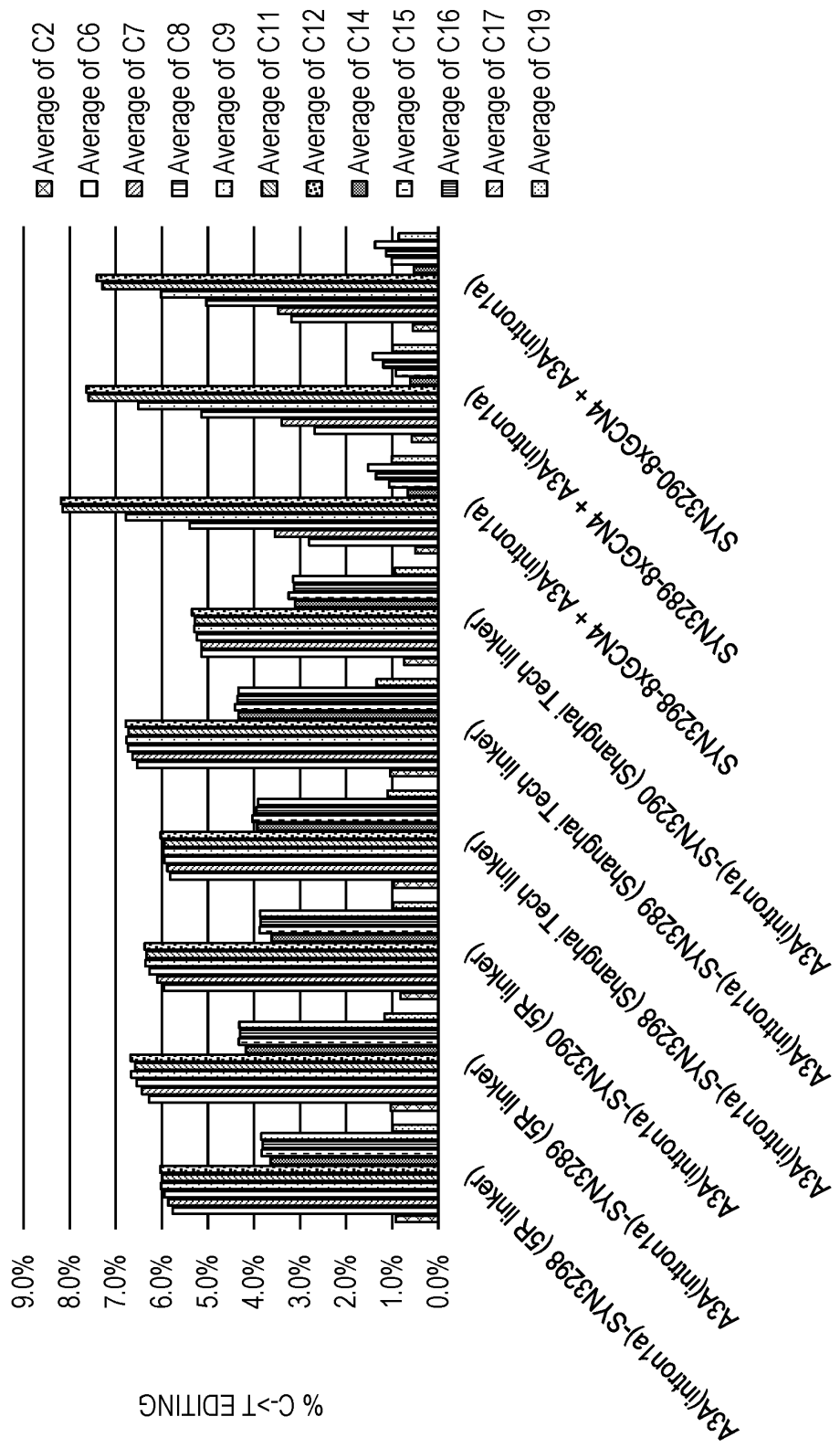


FIG. 21

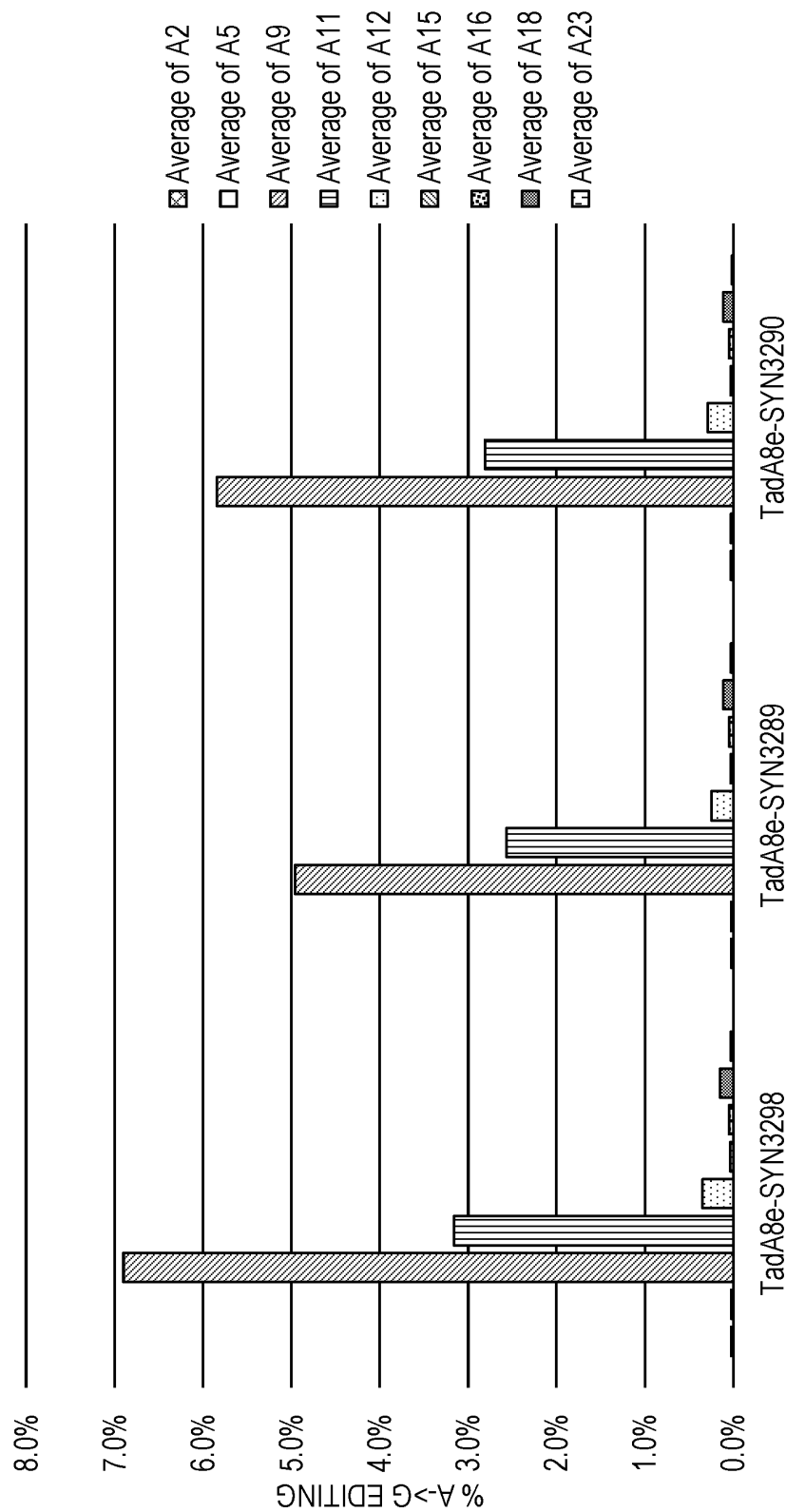


FIG. 22

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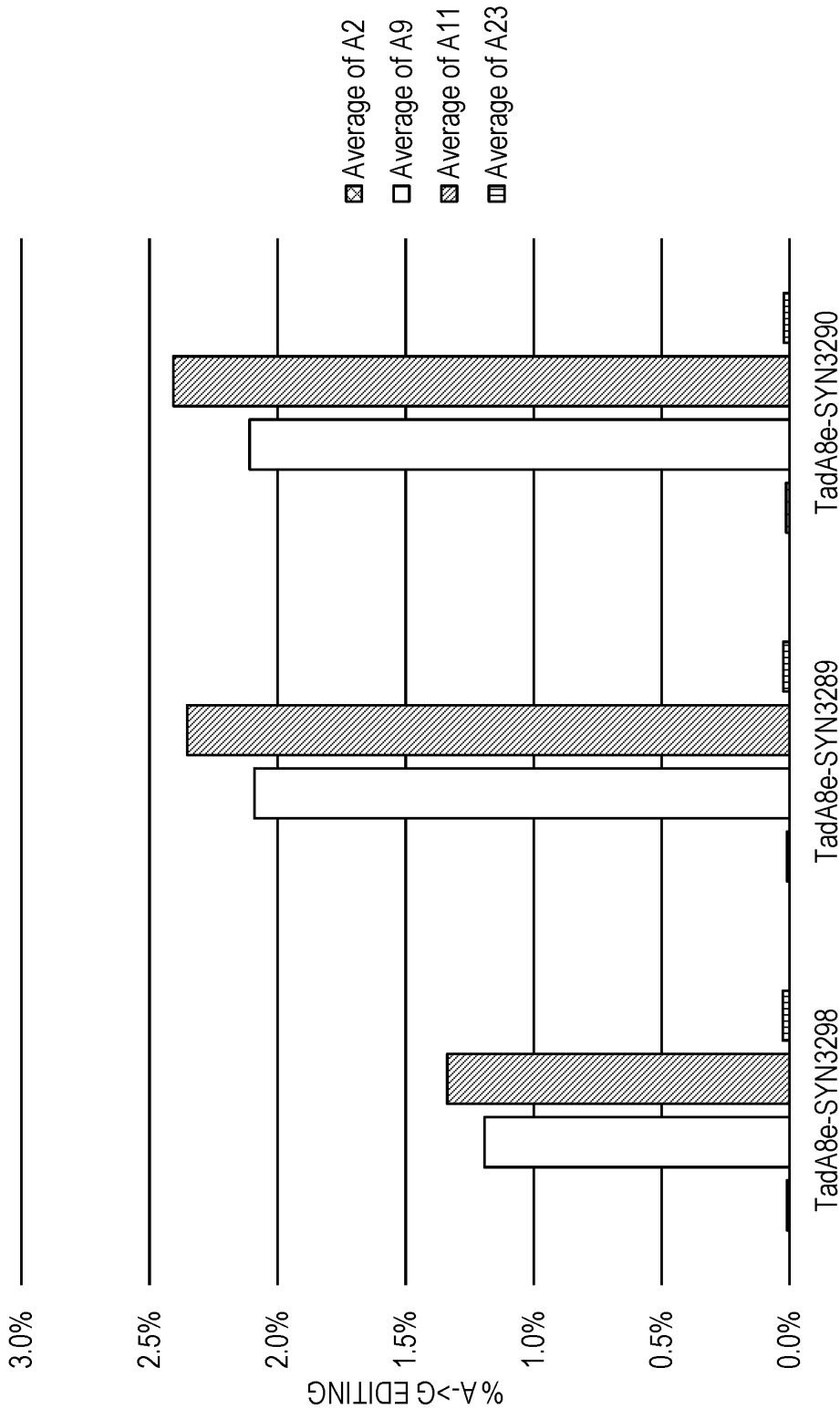


FIG. 23