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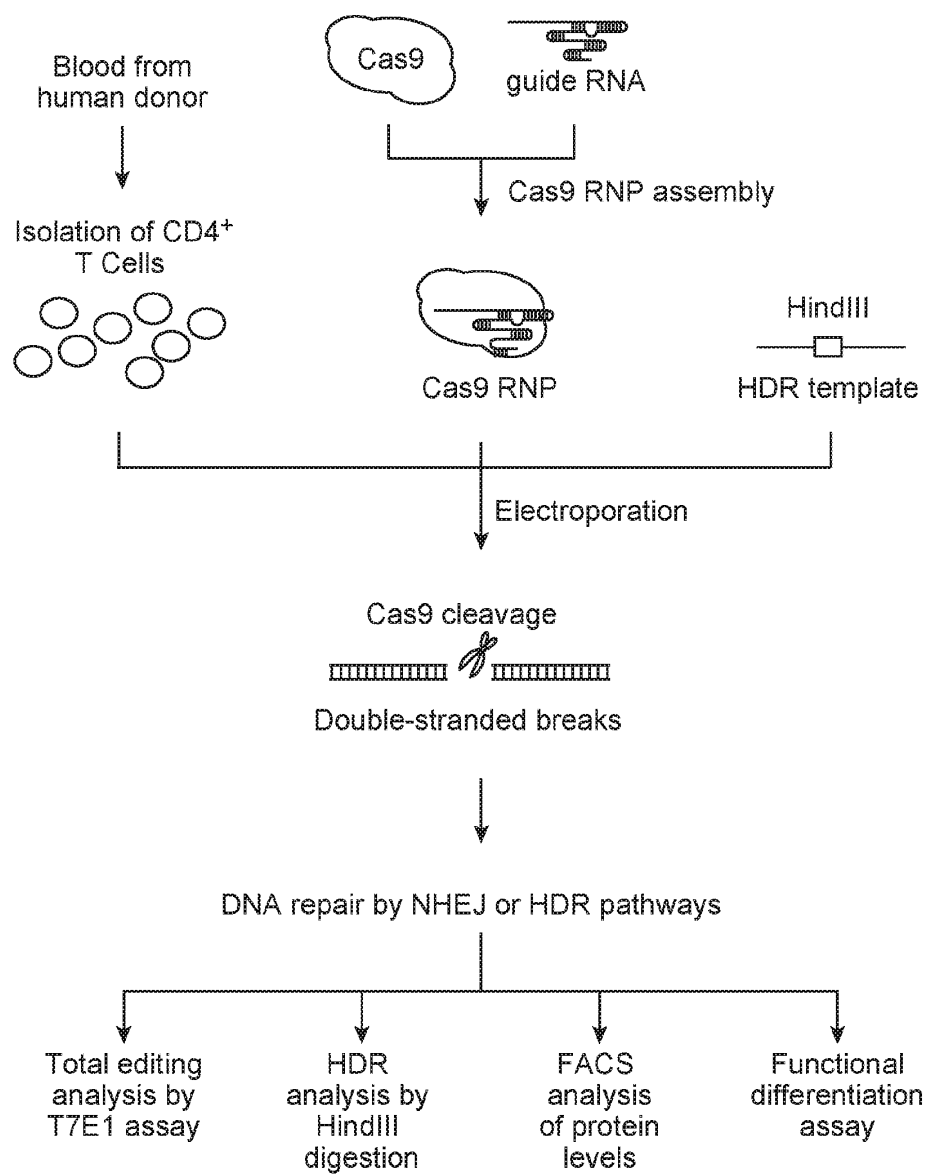


FIG. 1A



FIG. 1B

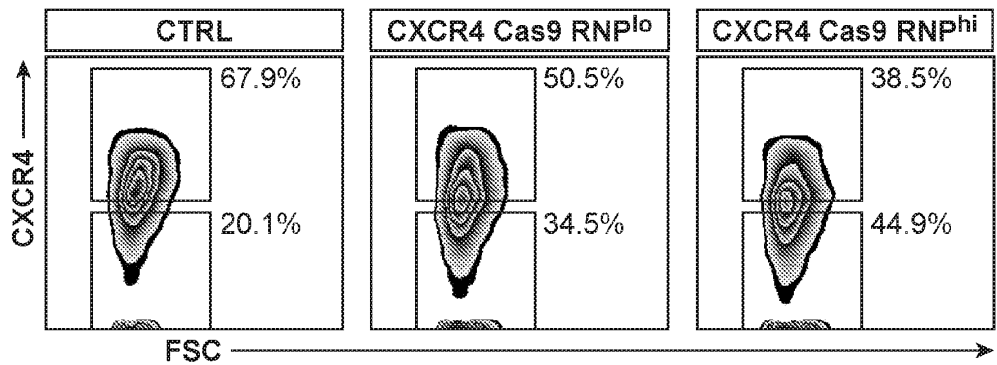


FIG. 1C

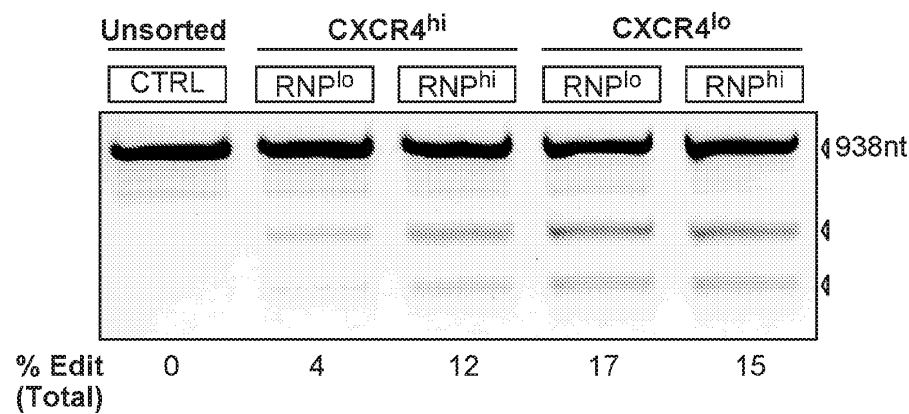


FIG. 1D

# CXCR4<sup>lo</sup>

[illegible]

11

[illegible]

FILED  
MAR 1 1964  
(Cont.)

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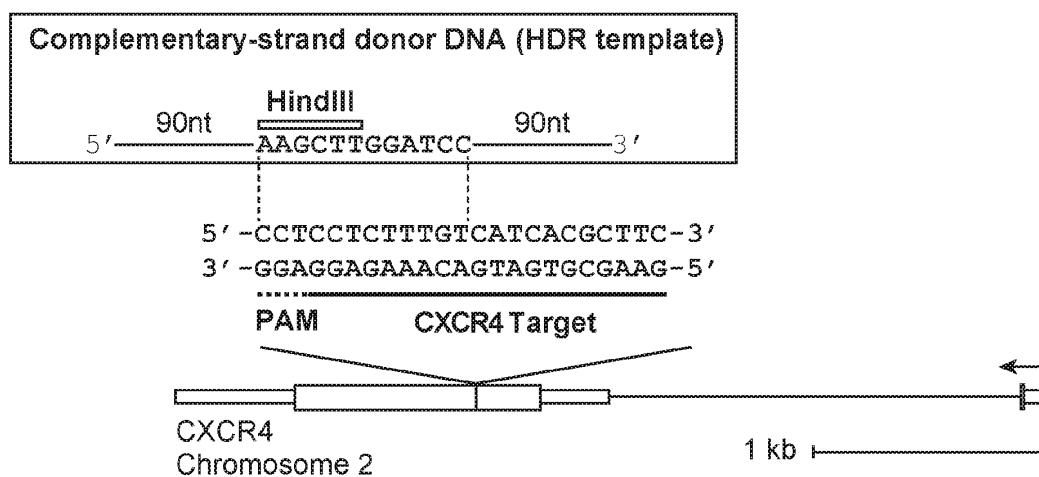


FIG. 2A

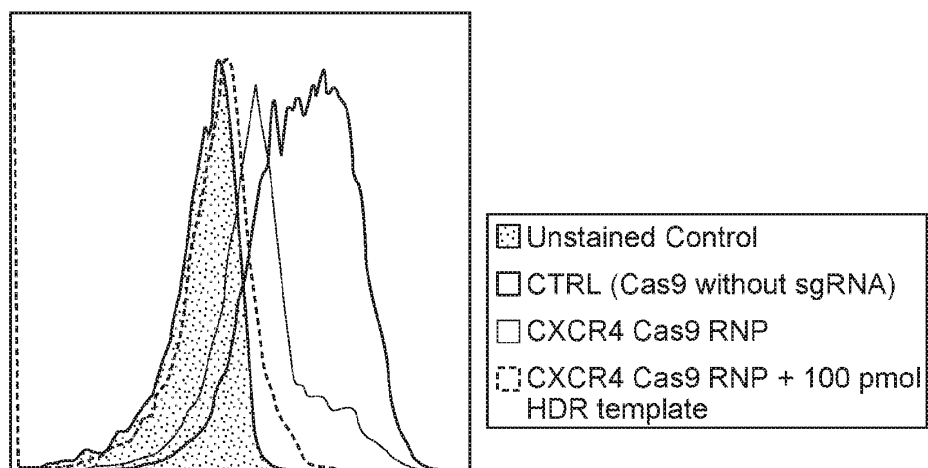
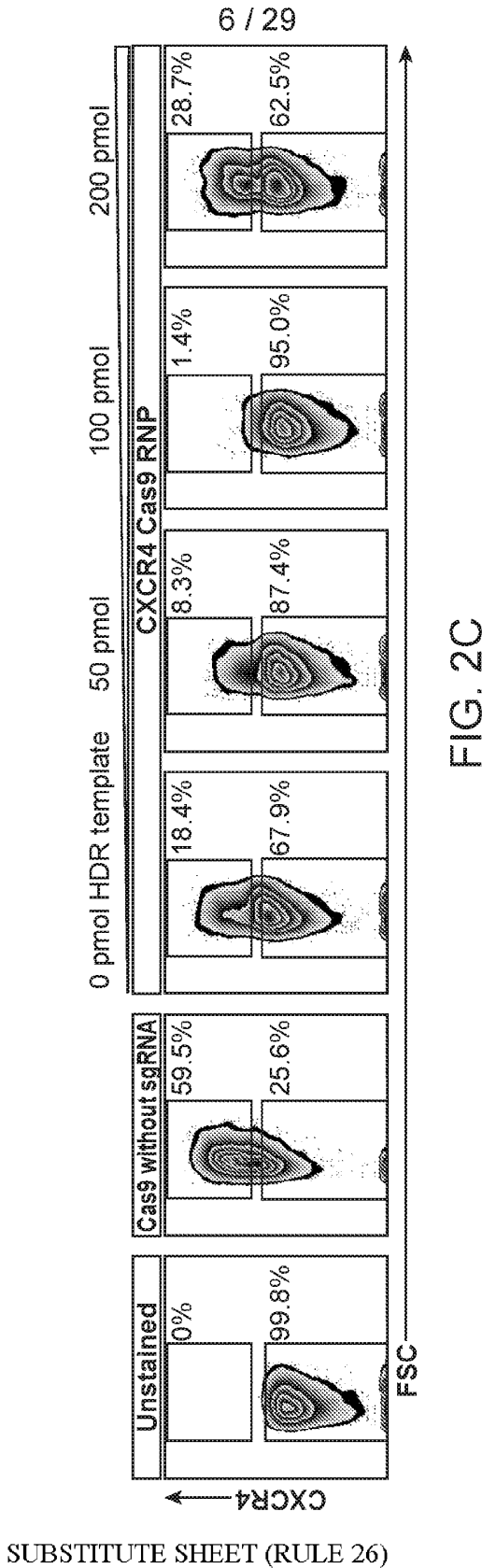
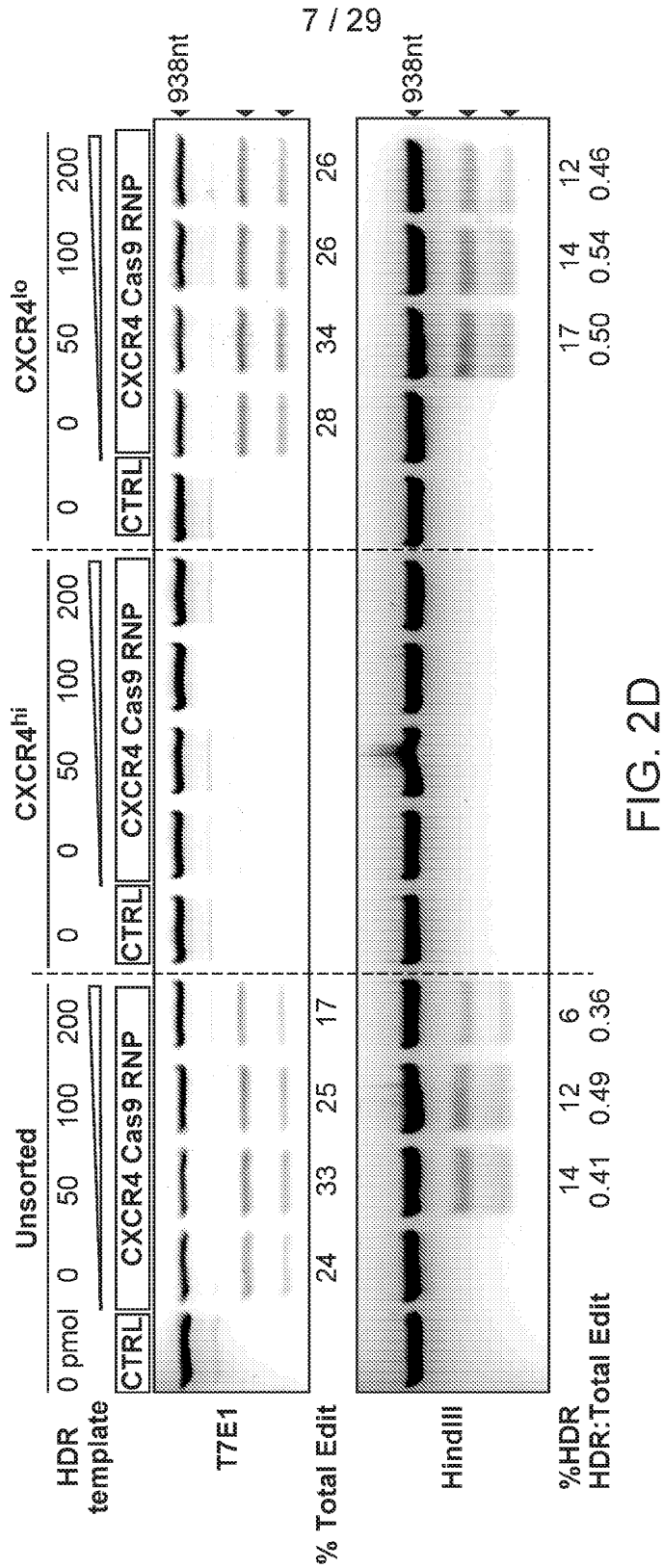


FIG. 2B





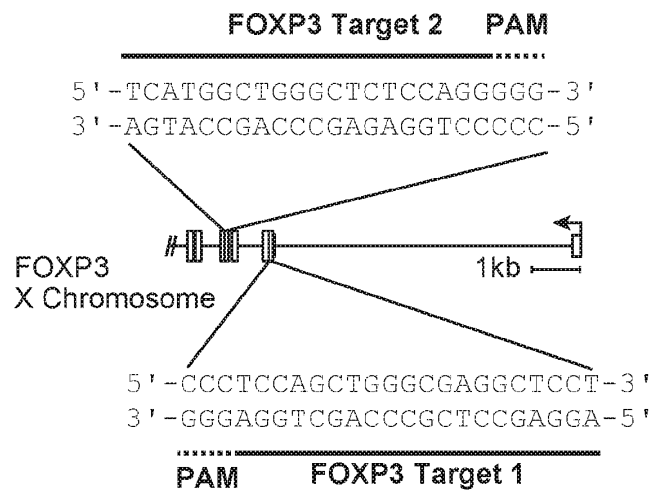


FIG. 3A

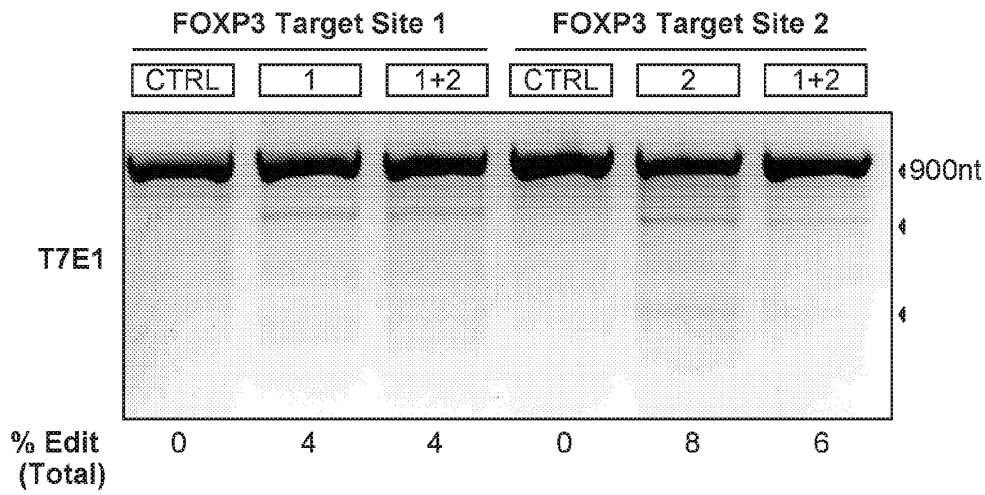


FIG. 3B

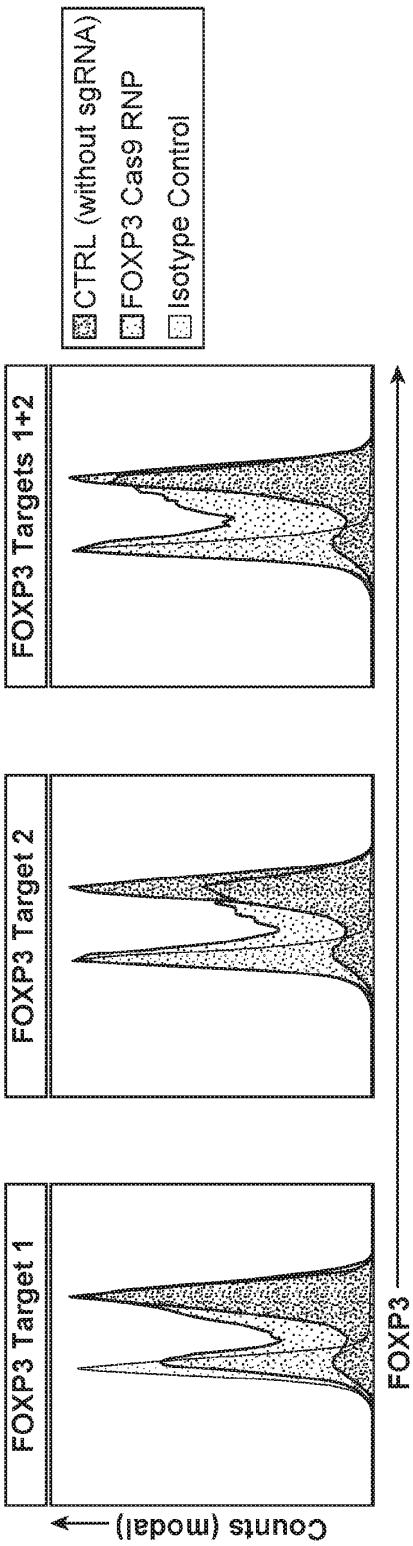


FIG. 3C

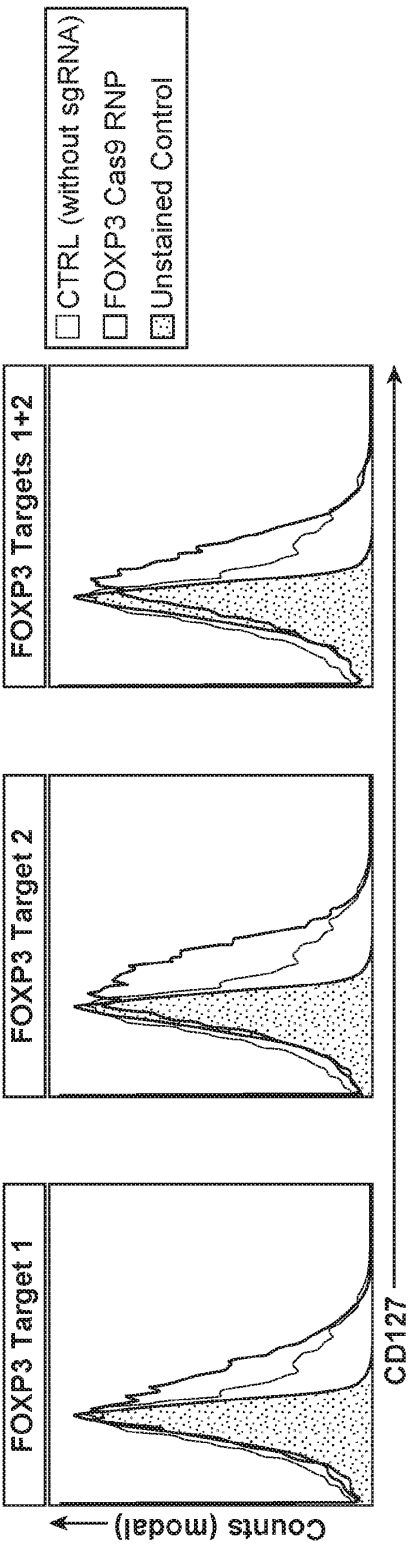


FIG. 3D

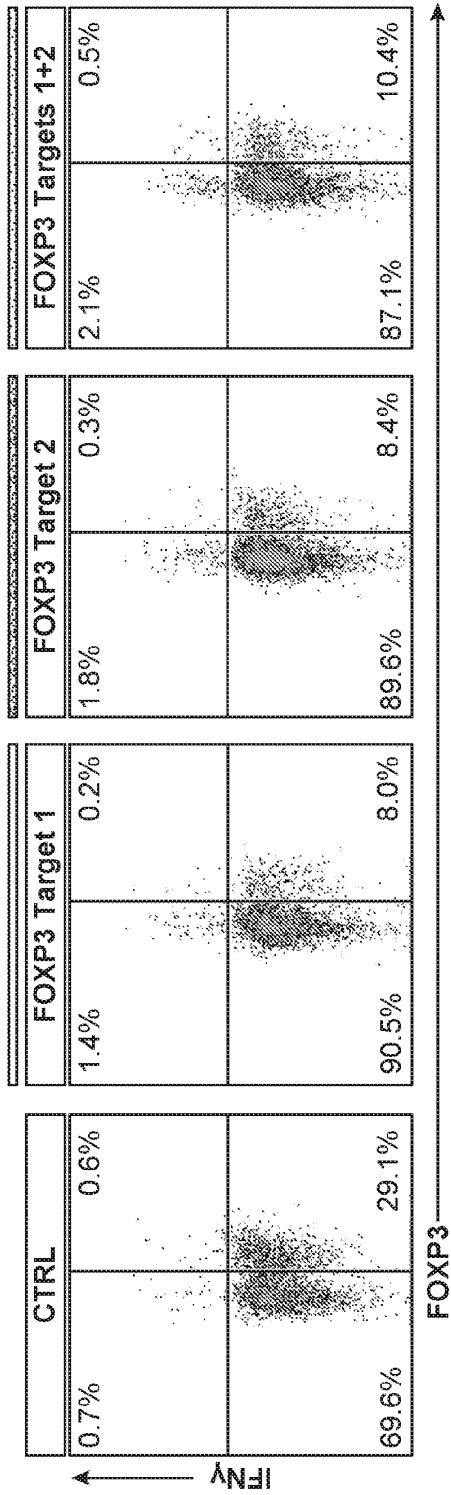


FIG. 4A

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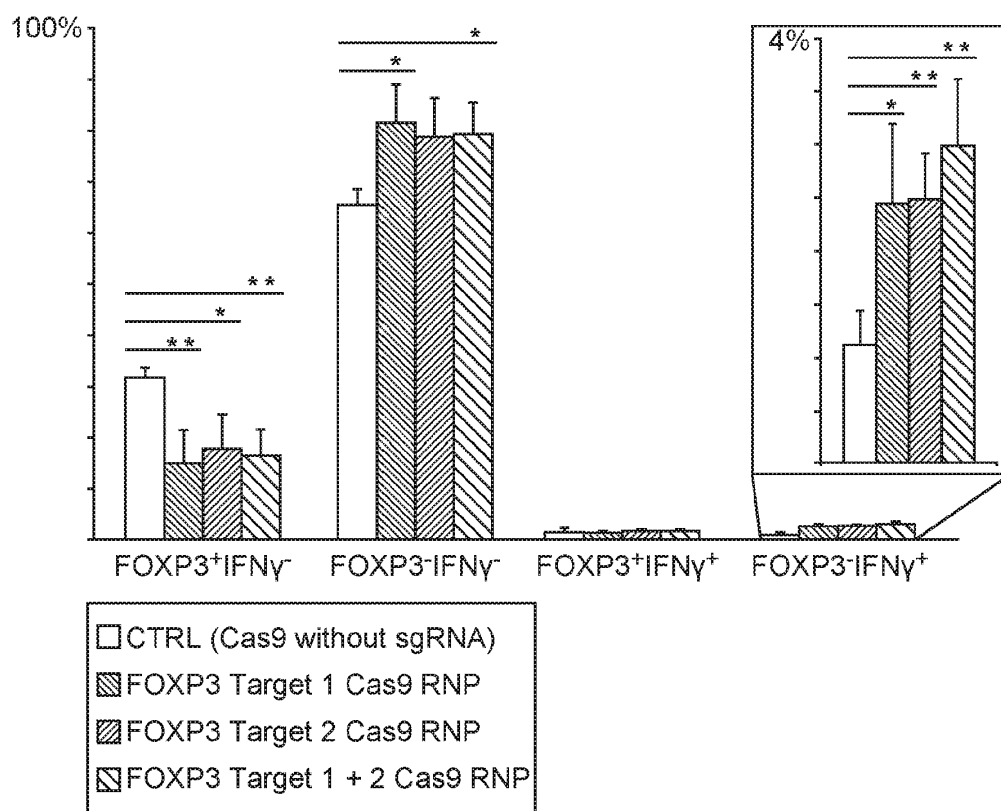


FIG. 4B

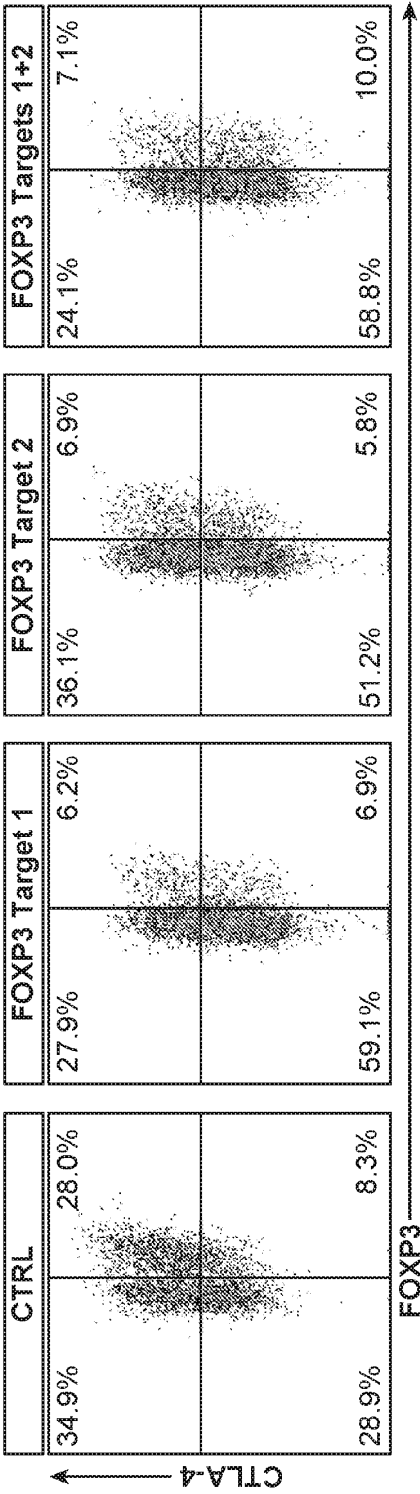


FIG. 4C

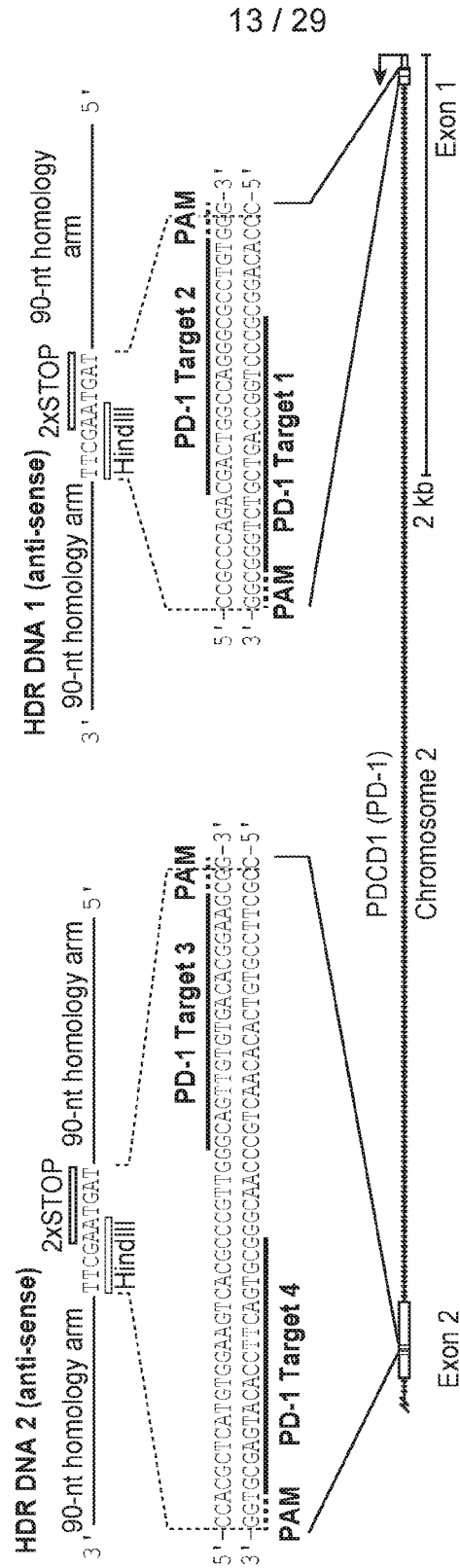


FIG. 5A

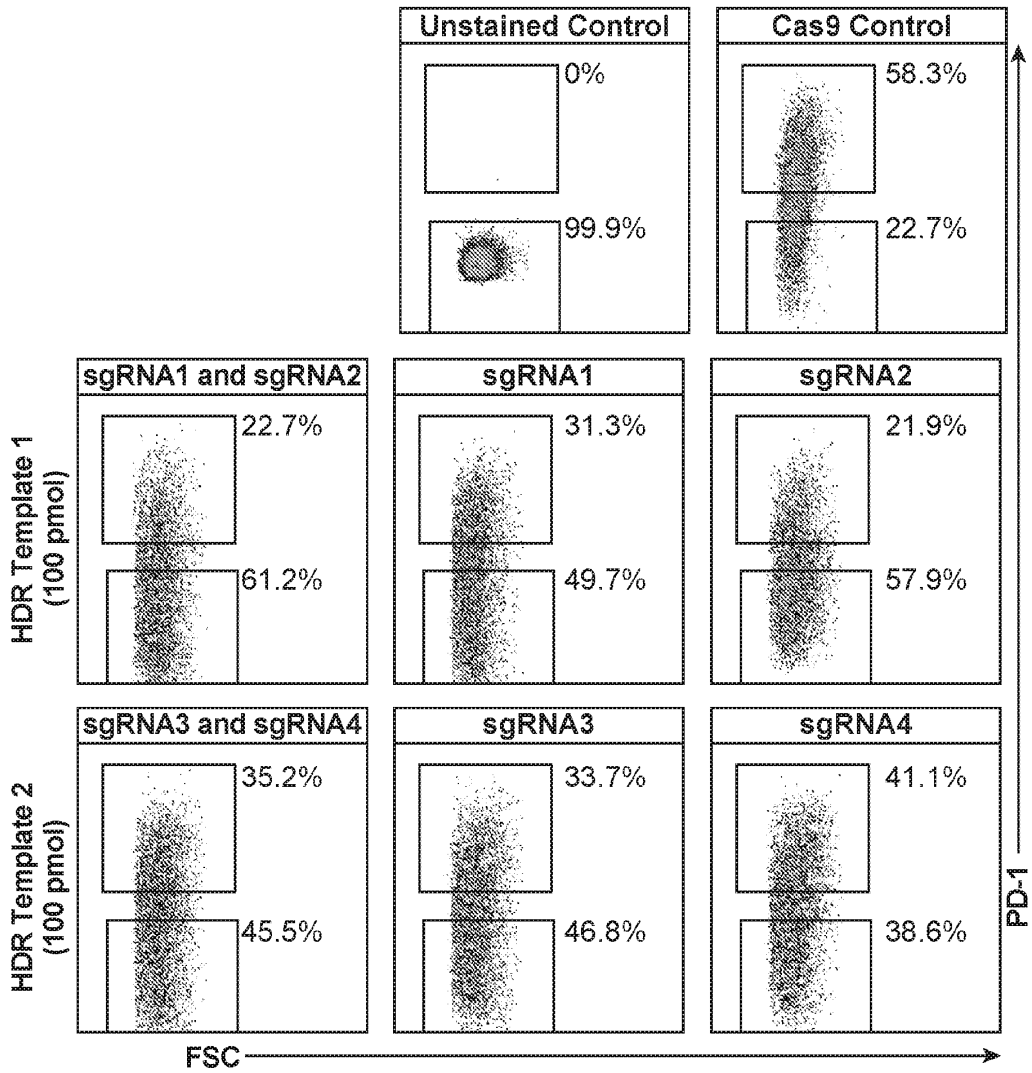


FIG. 5B

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SQZ\_Dextran  
Teff- SQZ with Cas9 or RNP3-2 +  
dextran 3k PB + dextran 500k FITC;  
double positive cells sorted

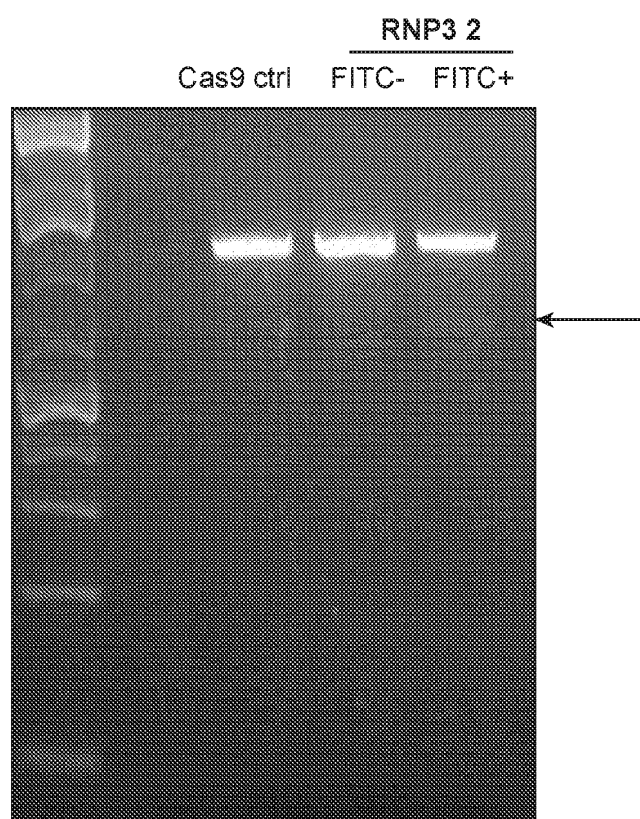


FIG. 6

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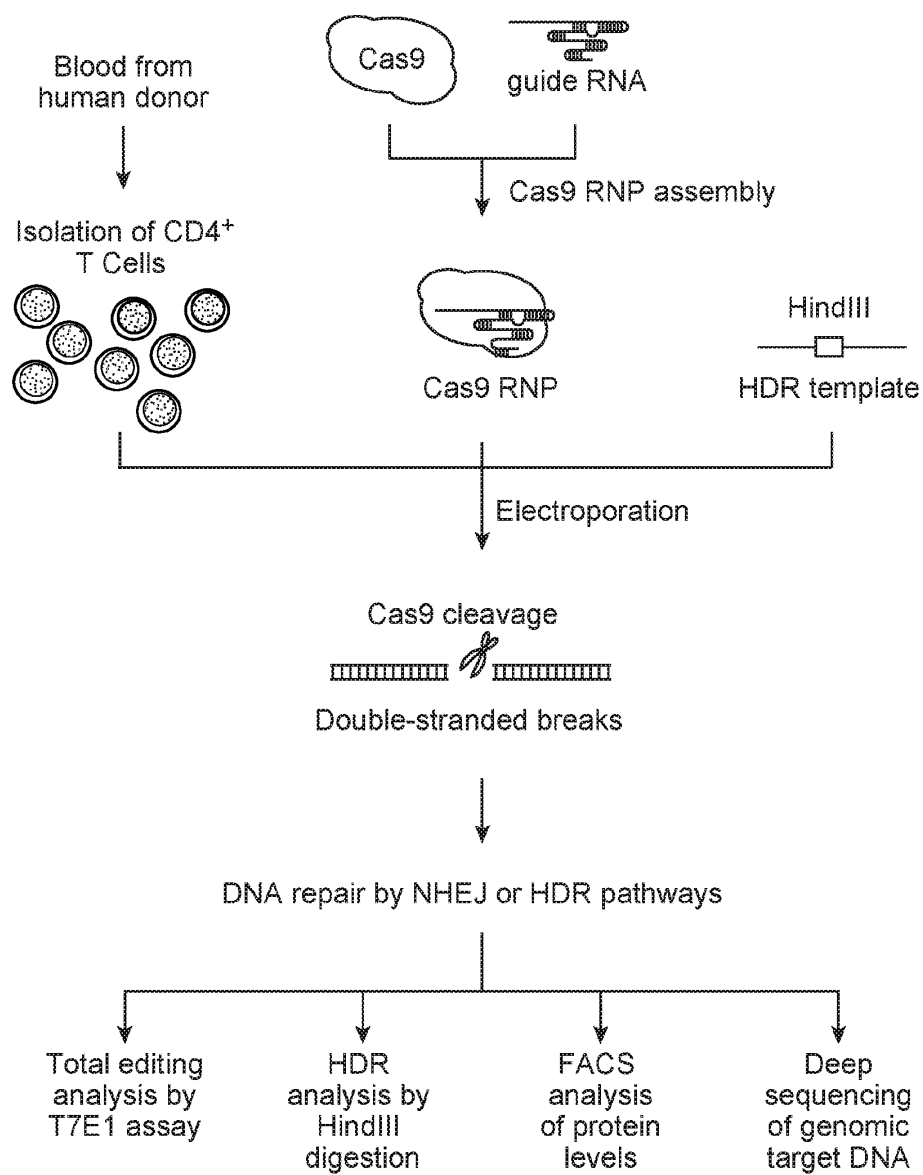


FIG. 7A

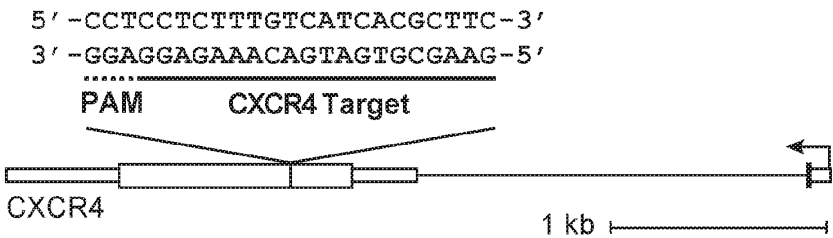


FIG. 7B

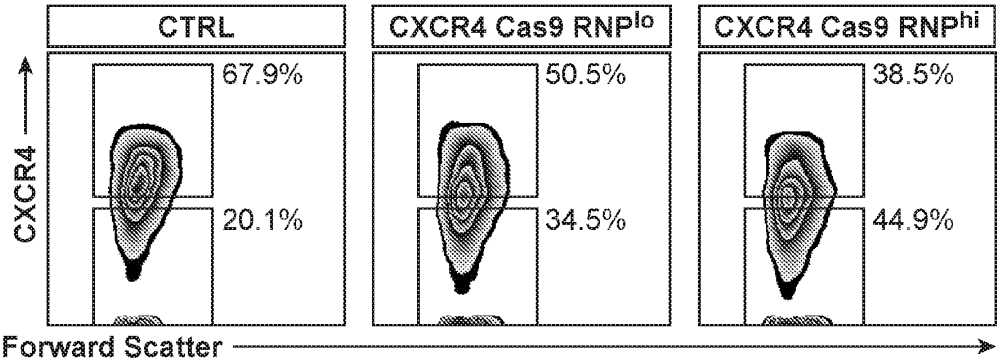


FIG. 7C

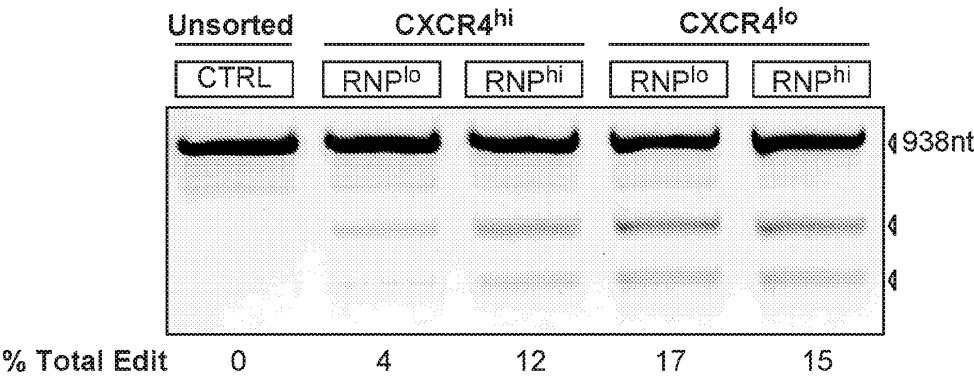


FIG. 7D

Target      PAM

[illegible]

**CXCR4<sup>lo</sup>**

REF TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATGACAAAGAGGAGGTCGGCCACTGACAGGTGCAGC  
 TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATGACAAAGAGGAGGTCGGCCACTGACAGGTGCAGC  
 TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATGACAAAAGGAGGTCGGCCACTGACAGGTGCAGC  
 TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATGACAAAGGAGGTCGGCCACTGACAGGTGCAGC  
 TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATGATGAGGAGGTCGGCCACTGACAGGTGCAGC  
 TGCCACGGG-----CCACTGACAGGTGCAGC  
 TGCCACGGCATCAACTGCCCAGAAGGGAAGCGTGATG-----//  
 168 bp deletion

CXCR4<sup>lo</sup>[illegible]

FIG. 7E

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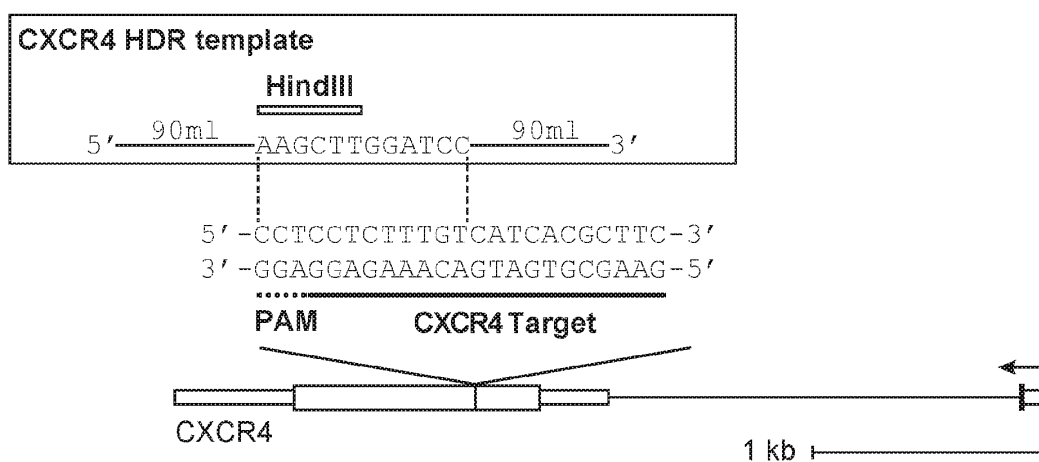


FIG. 8A

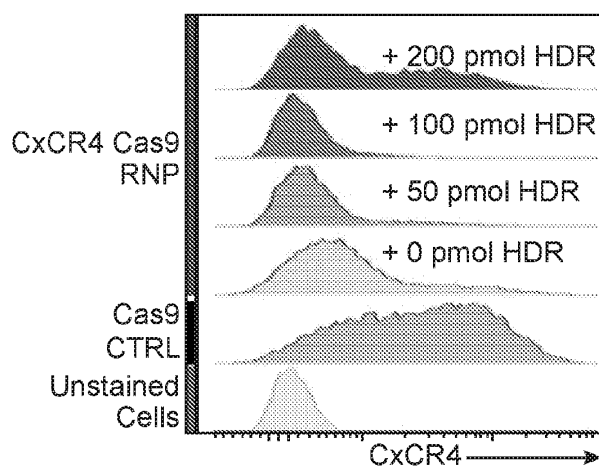


FIG. 8B

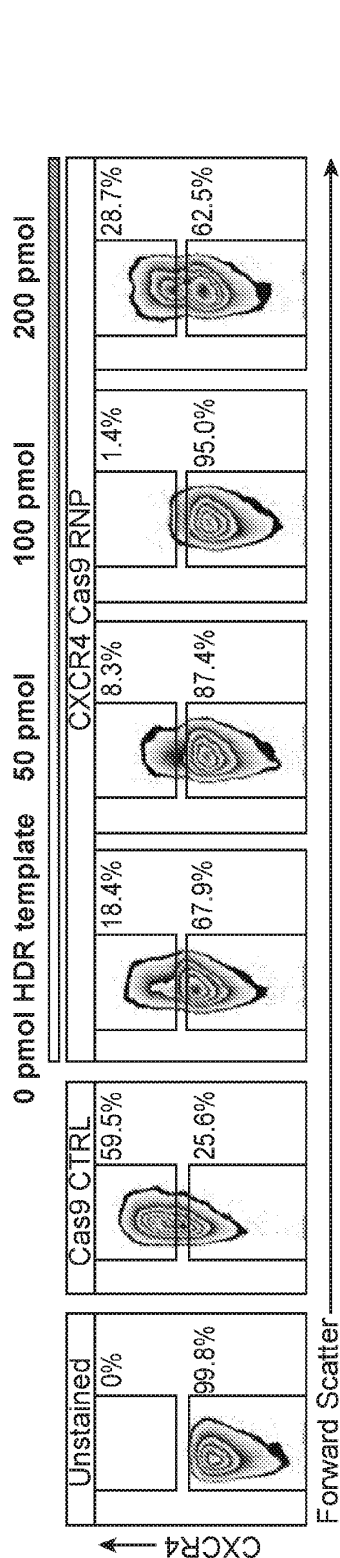


FIG. 8C

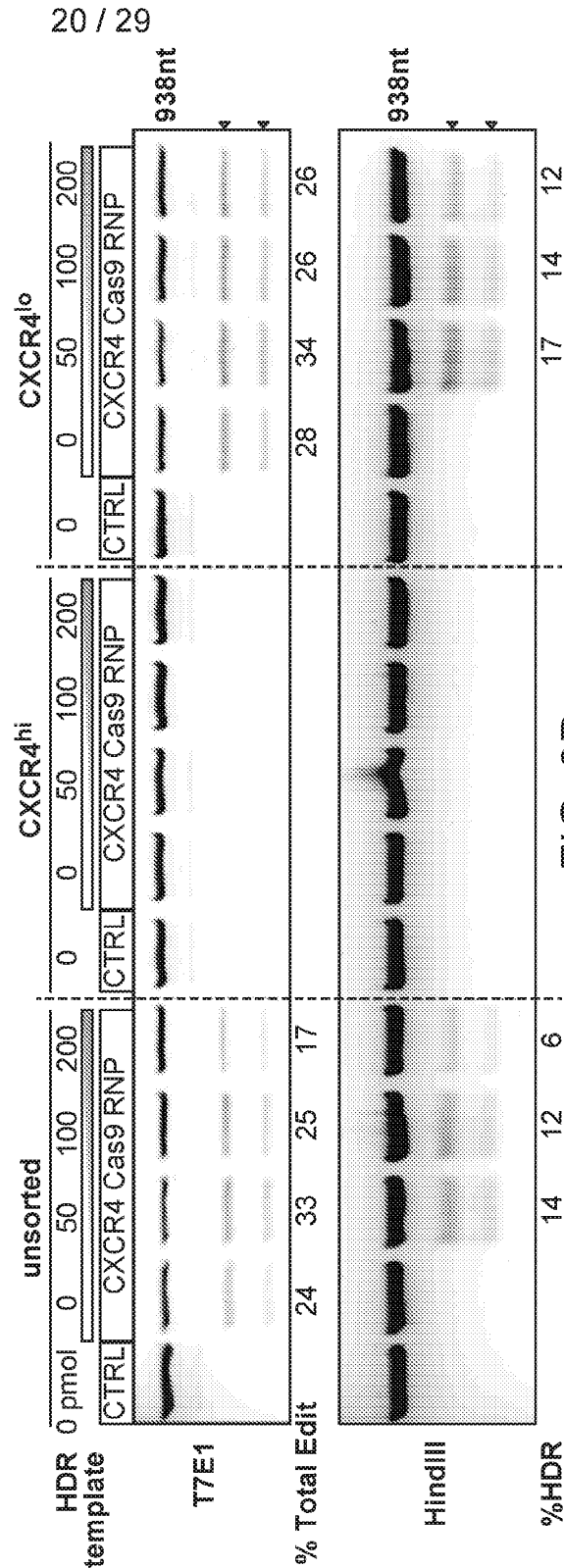


FIG. 8D

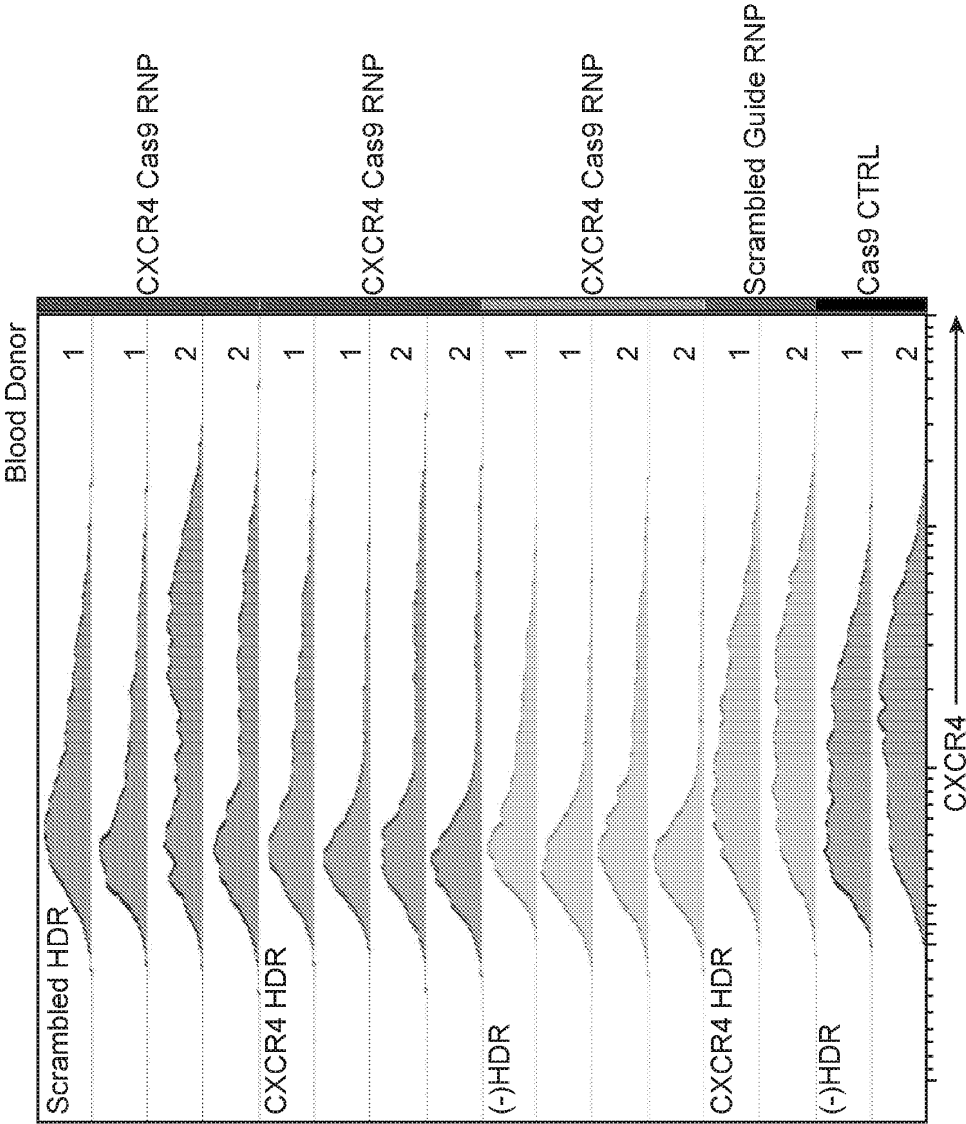


FIG. 9A

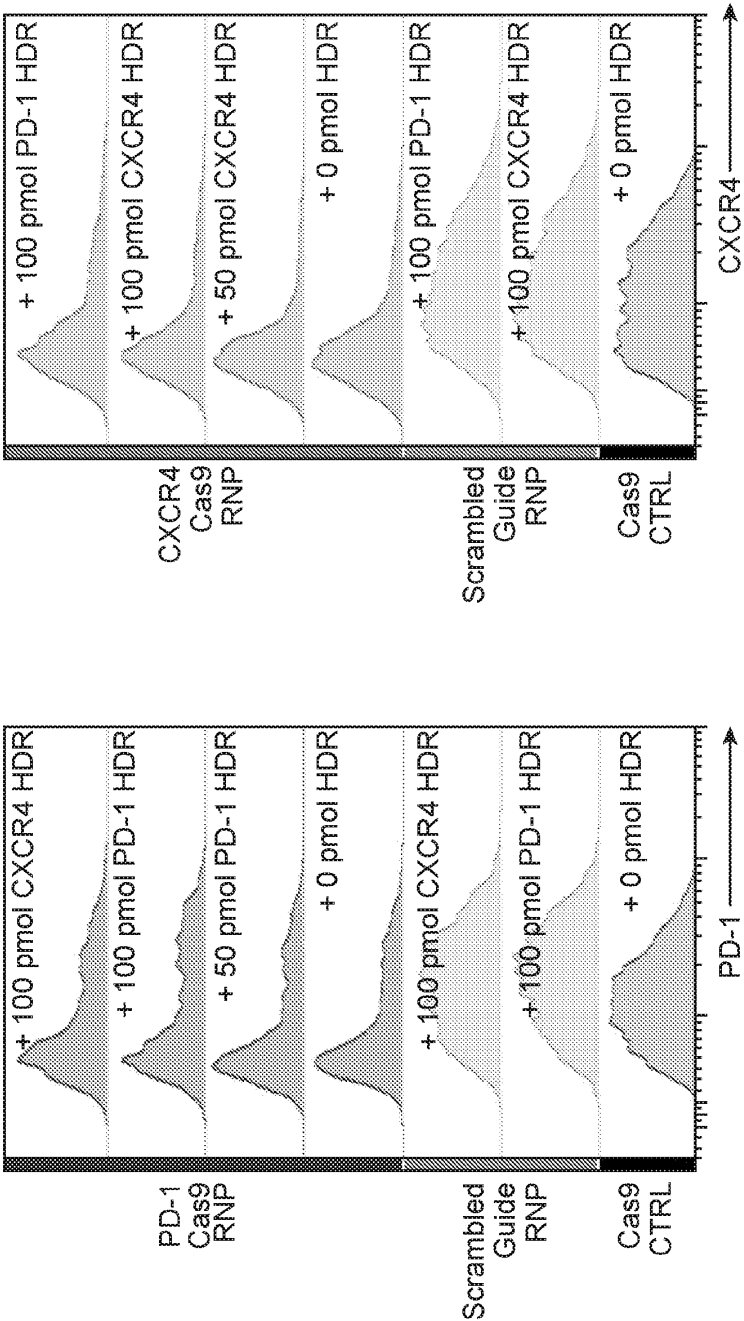


FIG. 9B

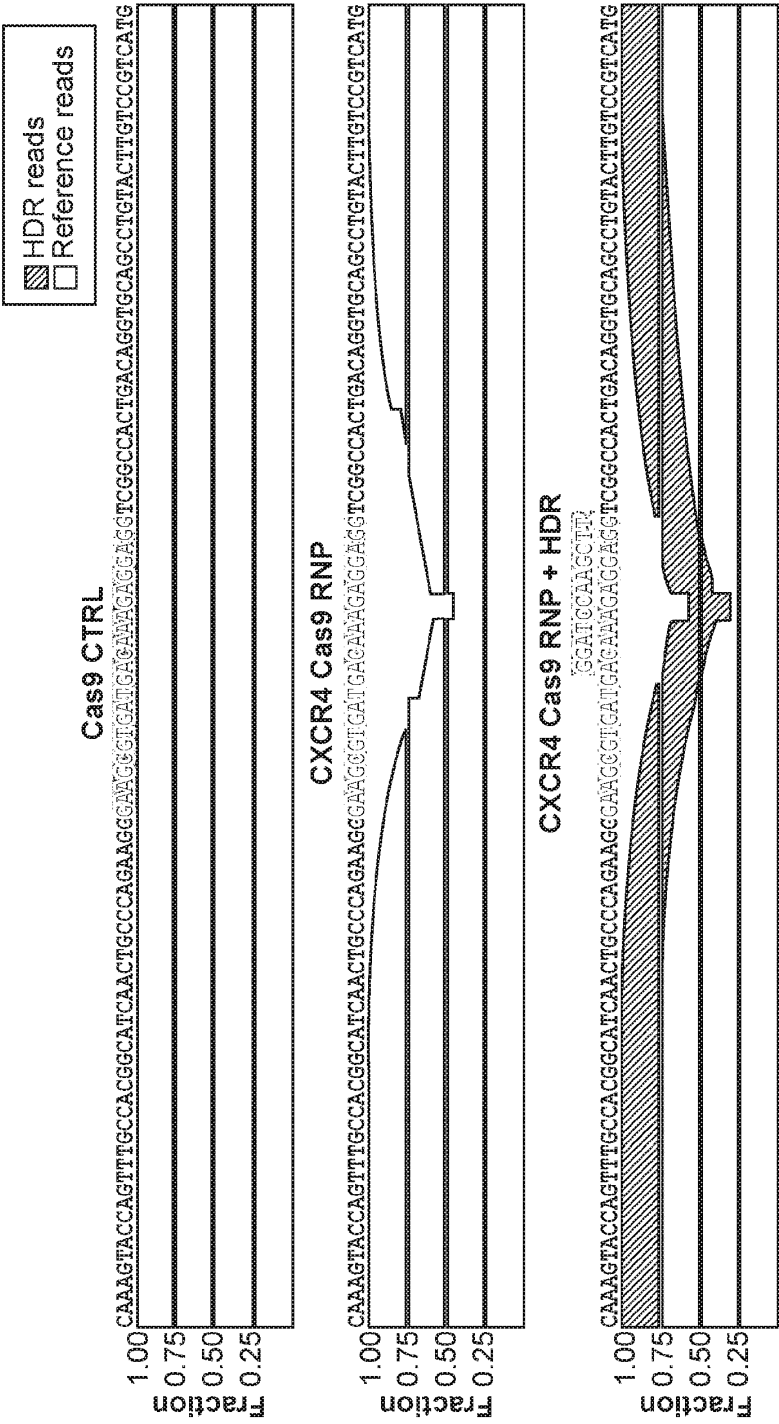


FIG. 10A

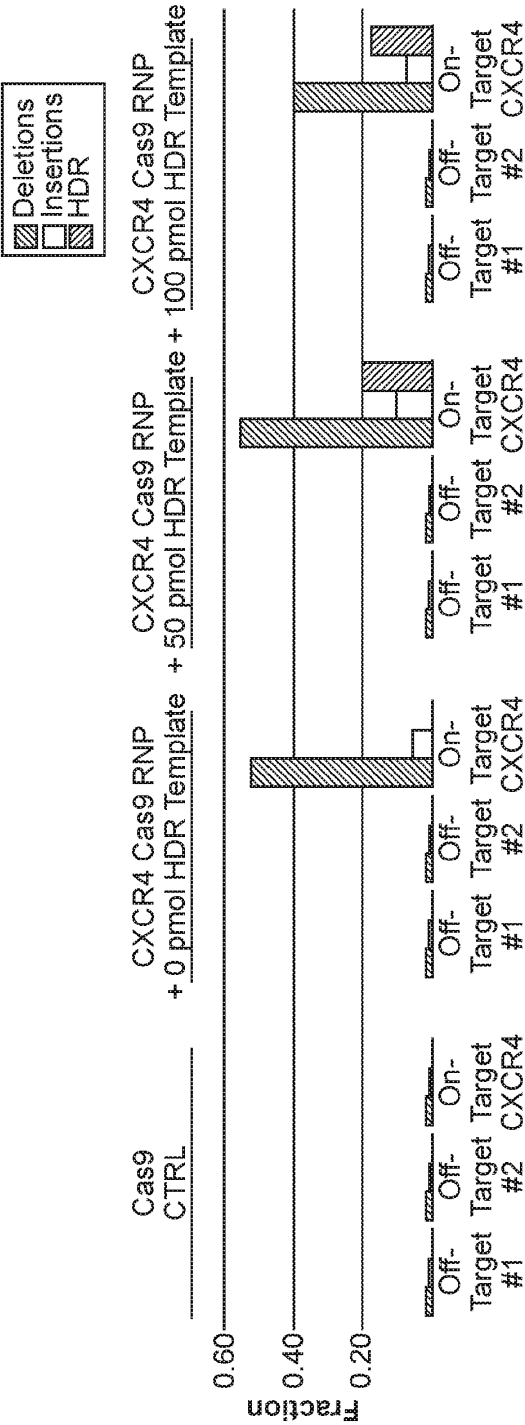
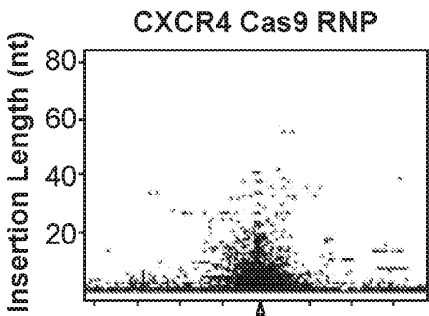
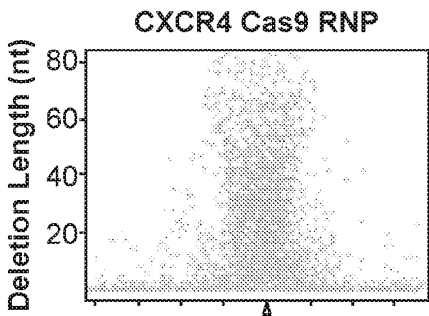
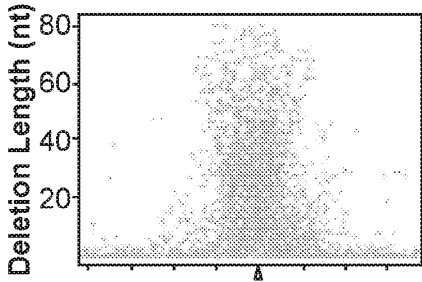


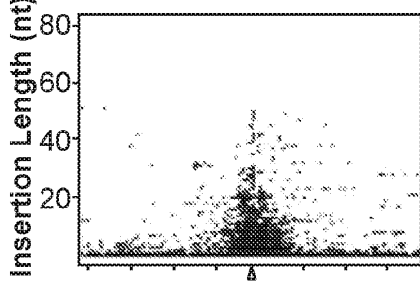
FIG. 10B



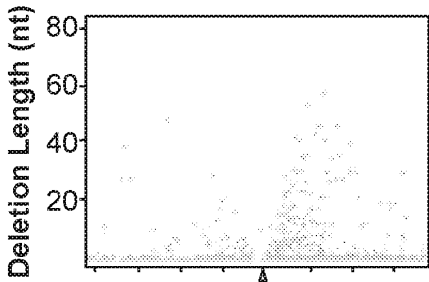
CXCR4 Cas9 RNP + HDR Template  
HindIII Reads Removed



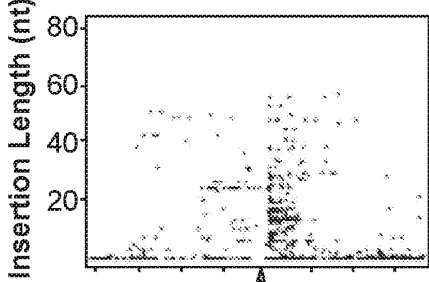
CXCR4 Cas9 RNP + HDR Template  
HindIII Reads Removed



CXCR4 Cas9 RNP + HDR Template  
HindIII Reads Only



CXCR4 Cas9 RNP + HDR Template  
HindIII Reads Only



CXCR4 site

CXCR4 site

FIG. 10C

FIG. 10D

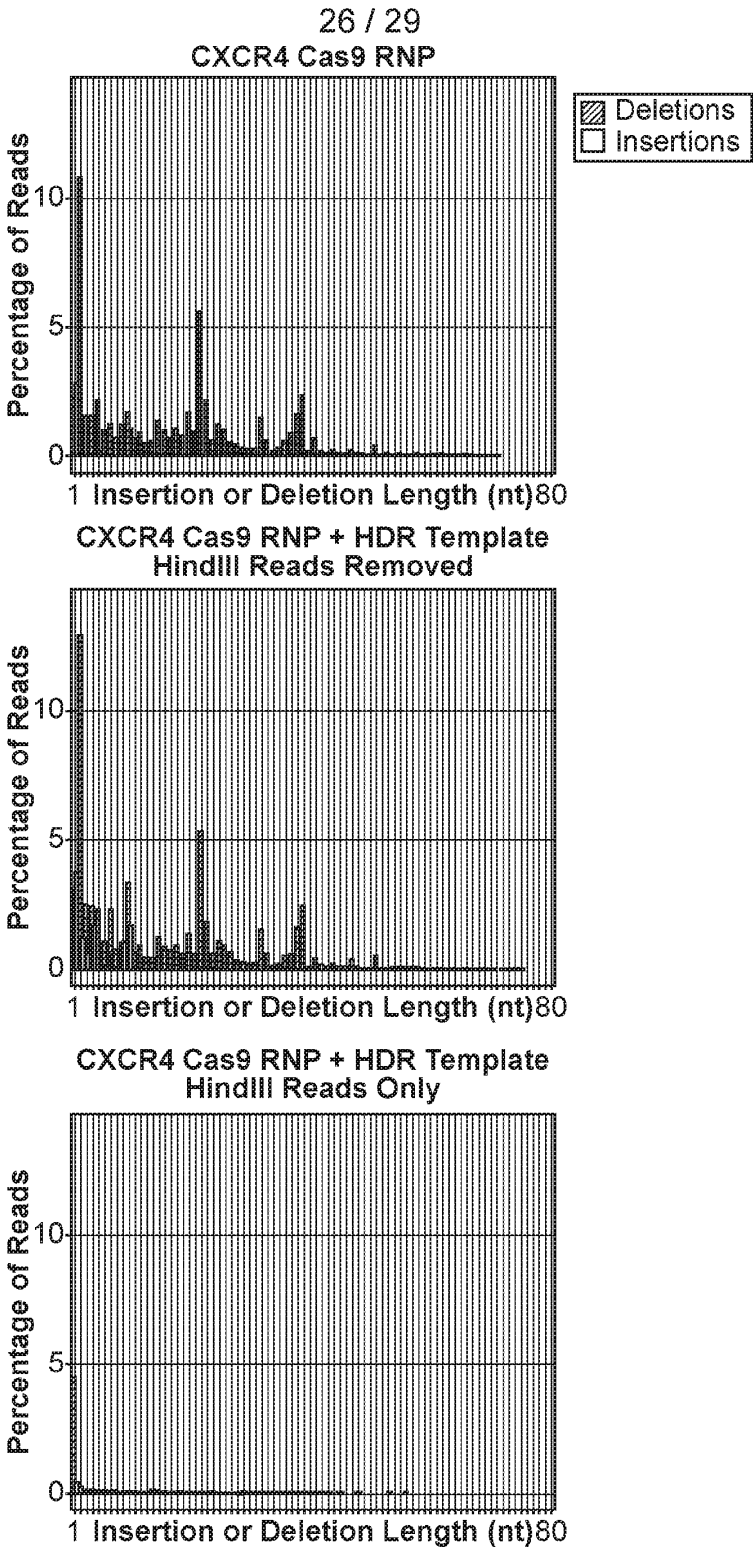


FIG. 11

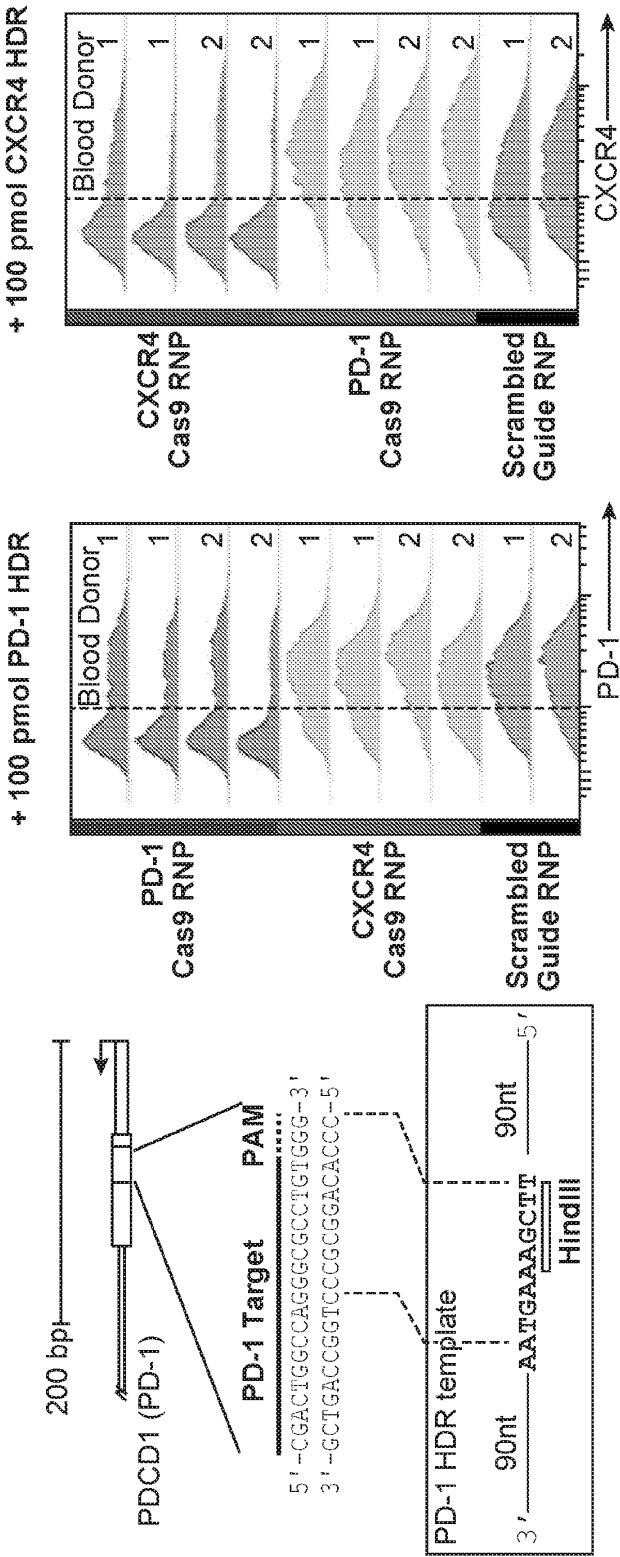


FIG. 12C

FIG. 12B

FIG. 12A

| PD-1 Genomic Target |   |     |     |       |       |       |      |      |      |      |       |  |  |
|---------------------|---|-----|-----|-------|-------|-------|------|------|------|------|-------|--|--|
| Scrambled           |   |     |     | CXCR4 |       |       |      | PD-1 |      |      |       |  |  |
| RNP                 |   |     |     | RNP   |       |       |      | RNP  |      |      |       |  |  |
| Ctrl                | 0 | 100 | 100 | 0     | 50    | 100   | 100  | 0    | 50   | 100  | 100   |  |  |
| HDR                 | 0 | 100 | 100 | CXCR4 | CXCR4 | CXCR4 | PD-1 | PD-1 | PD-1 | PD-1 | CXCR4 |  |  |
| Template            |   |     |     |       |       |       |      |      |      |      |       |  |  |
| T7E1                |   |     |     |       |       |       |      |      |      |      |       |  |  |
| % Total Edit        |   |     |     |       |       |       |      |      |      |      |       |  |  |
| HindIII             |   |     |     |       |       |       |      |      |      |      |       |  |  |
| % HDR               |   |     |     |       |       |       |      |      |      |      |       |  |  |

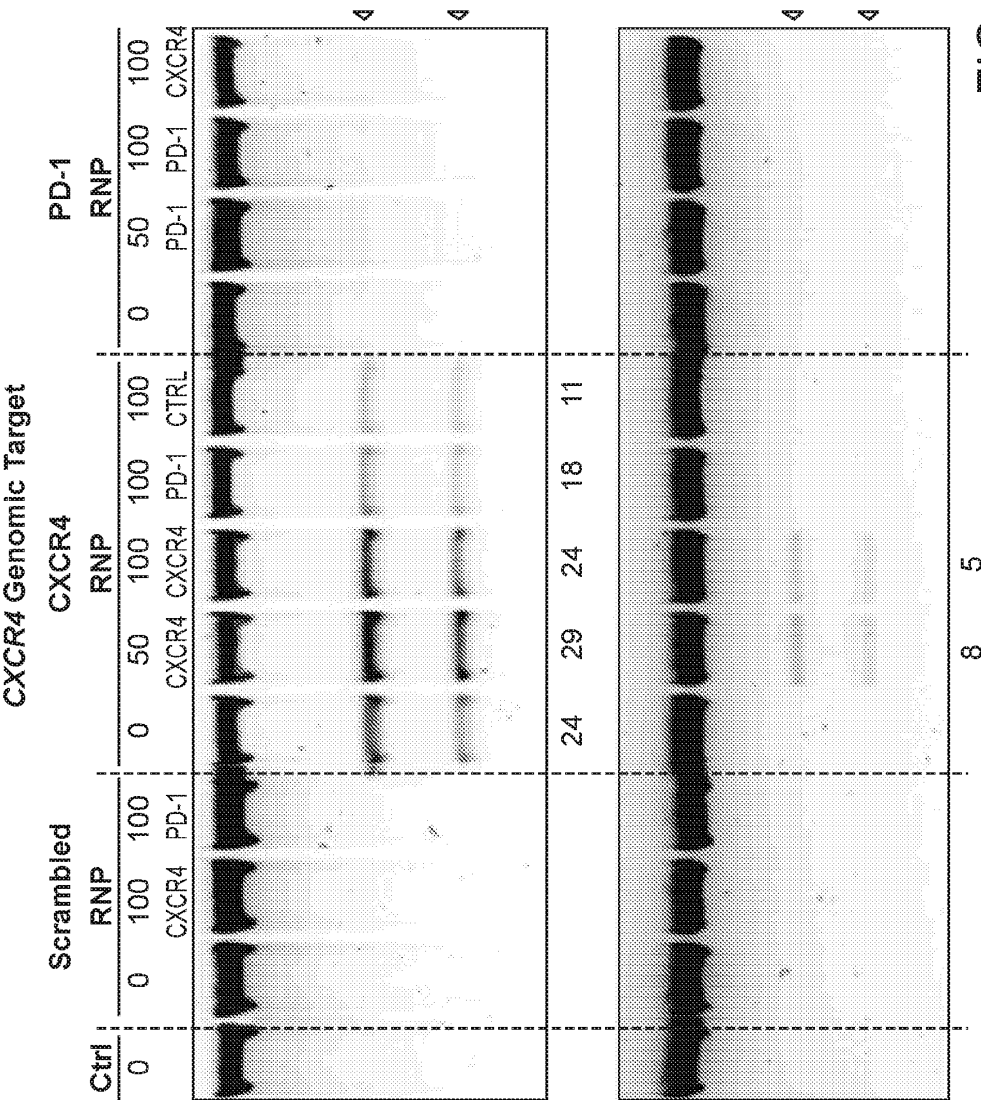


FIG. 12D (Cont.)