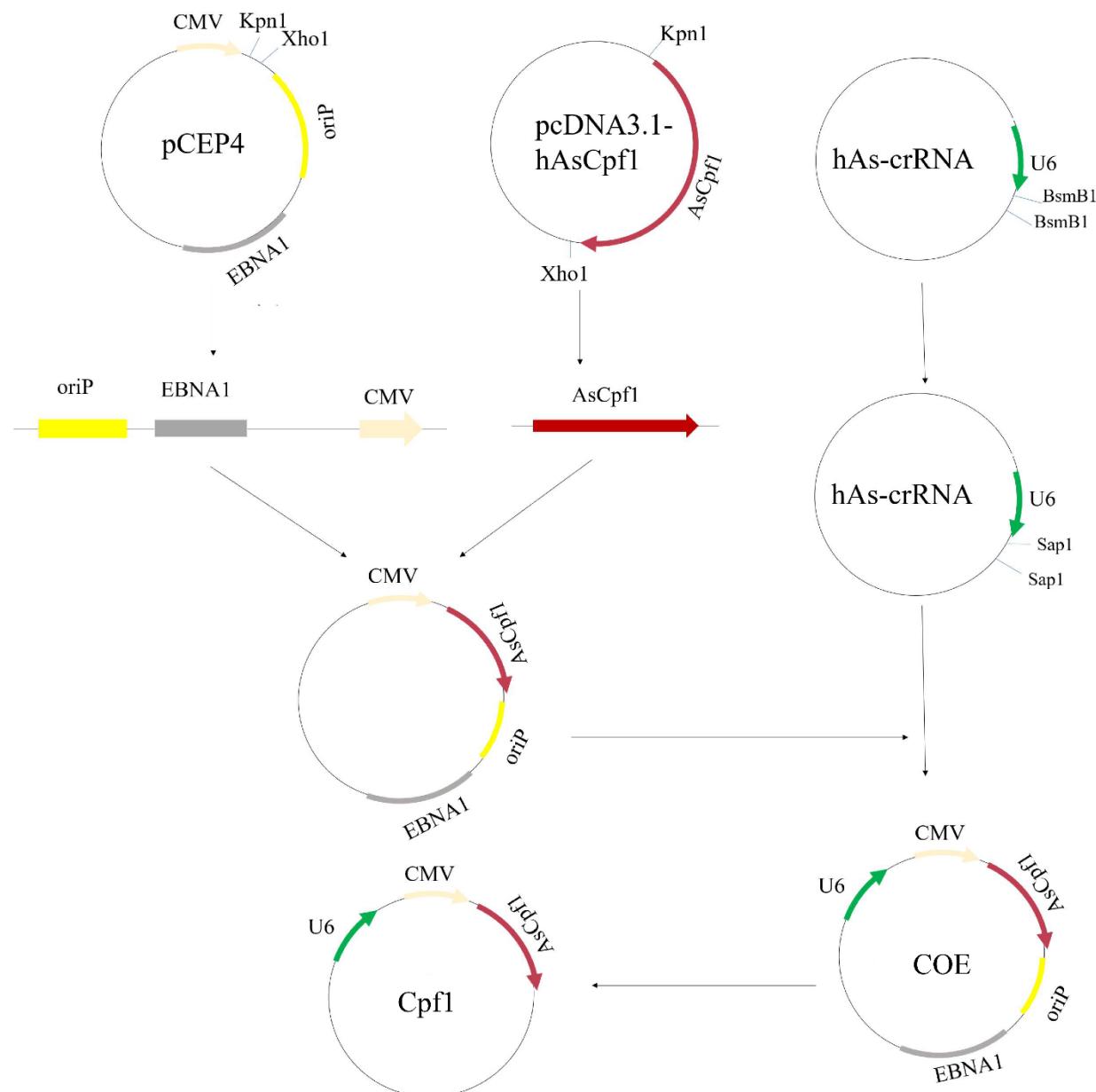
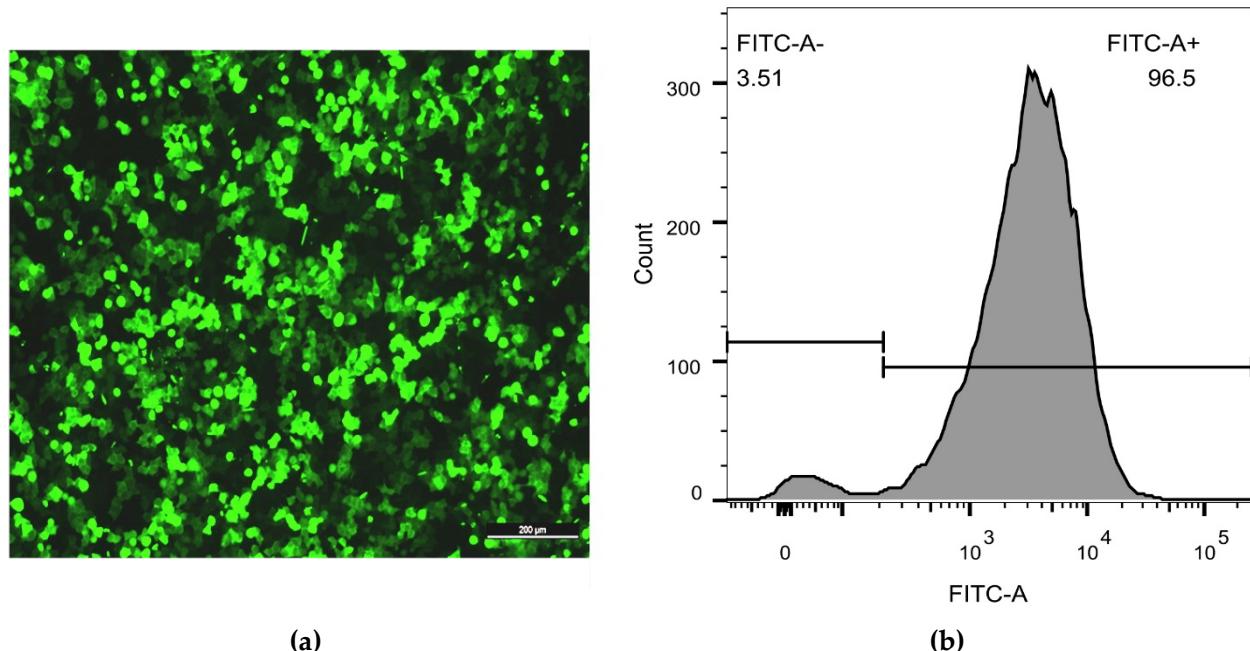


*Supplementary Materials*

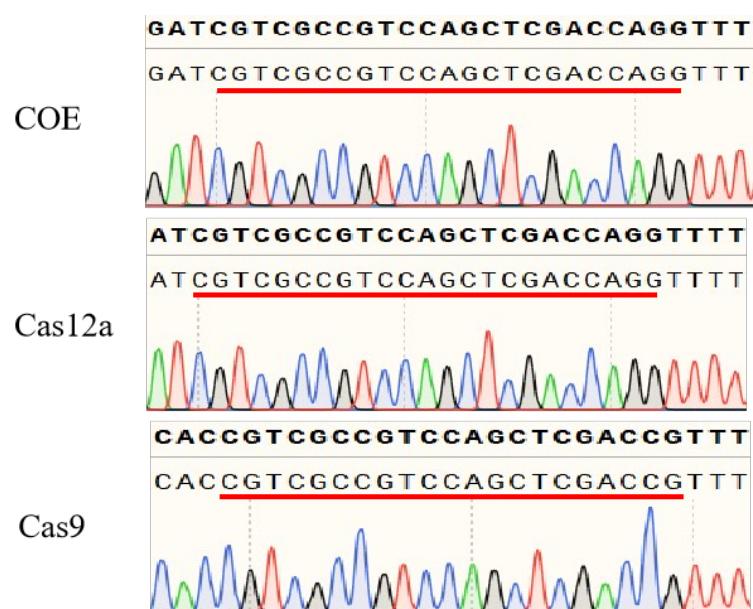
# An Episomal CRISPR/Cpf1 System Mediated Efficient Gene Editing



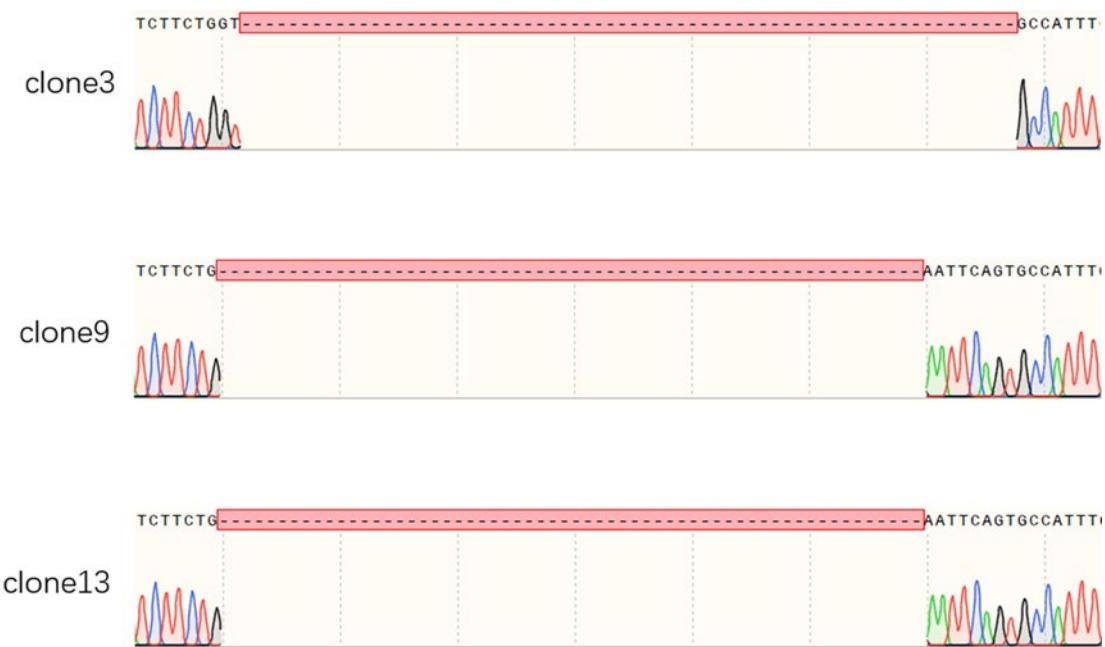
**Figure S1.** Schematic diagram of design and construction of episomal CRISPR/Cas12a.



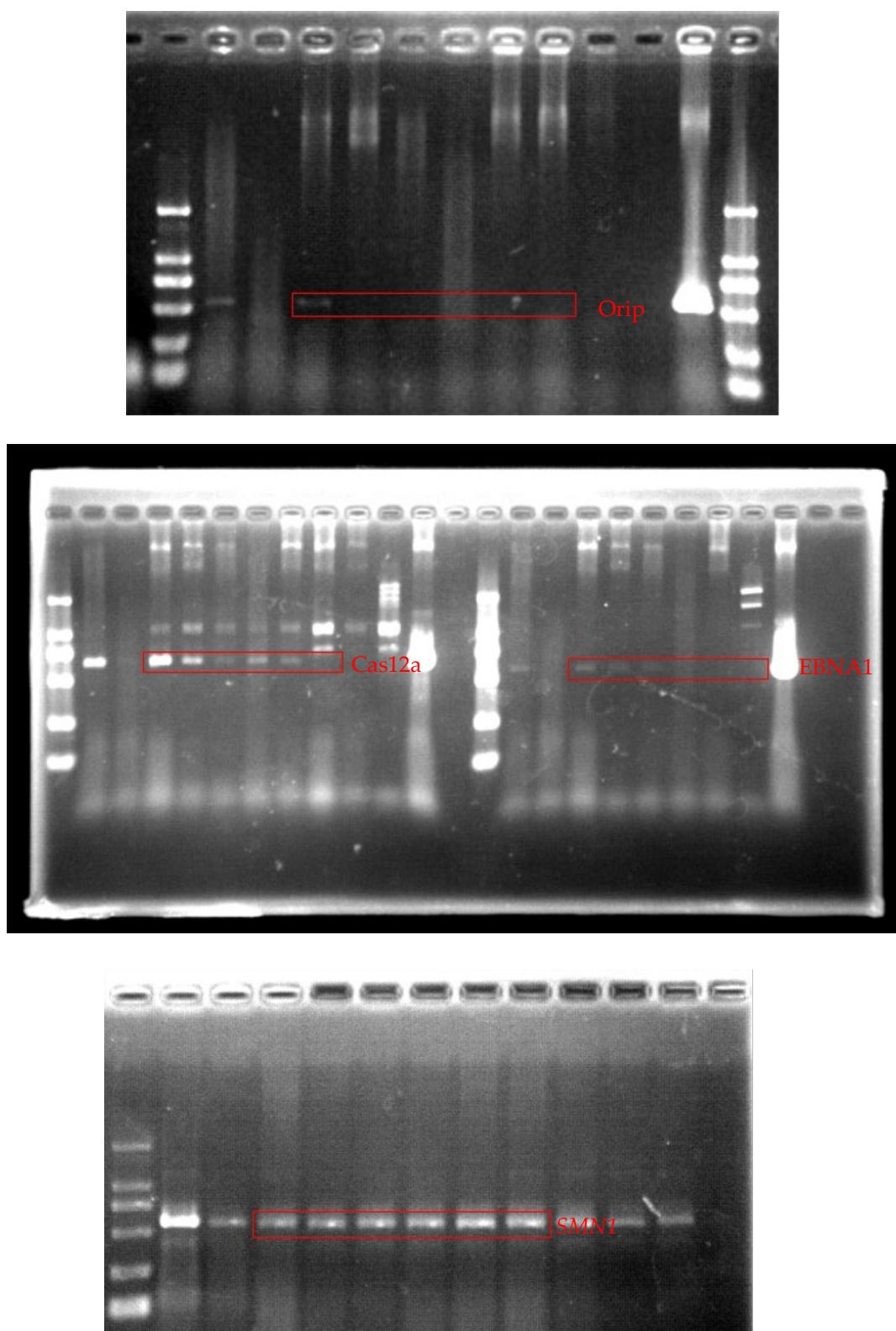
**Figure S2.** Stable GFP-expressing HEK-293T cell. (a) Image of fluorescence signal of HEK-293T stably expressing GFP. Scale bar: 500  $\mu$ m. (b) Flow results show that the rate of GFP positive cells was 96.5%.



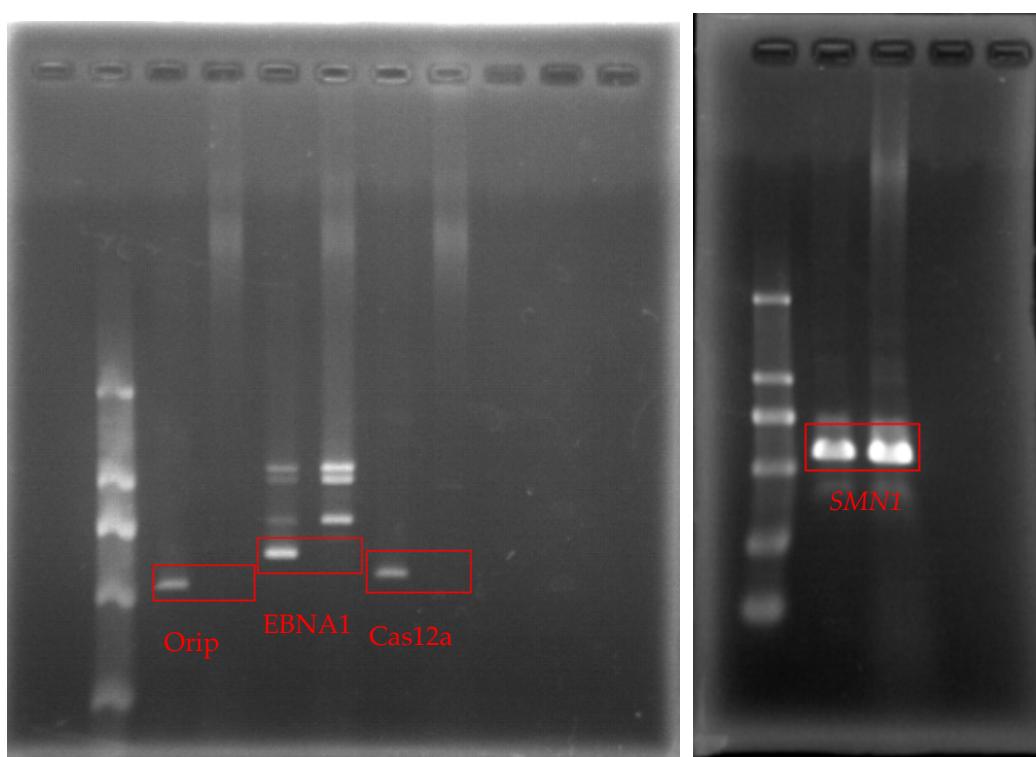
**Figure S3.** Vectors targeting GFP were sequenced by Sanger sequencing. Sanger sequencing results showed that vectors targeting GFP was successfully construct.



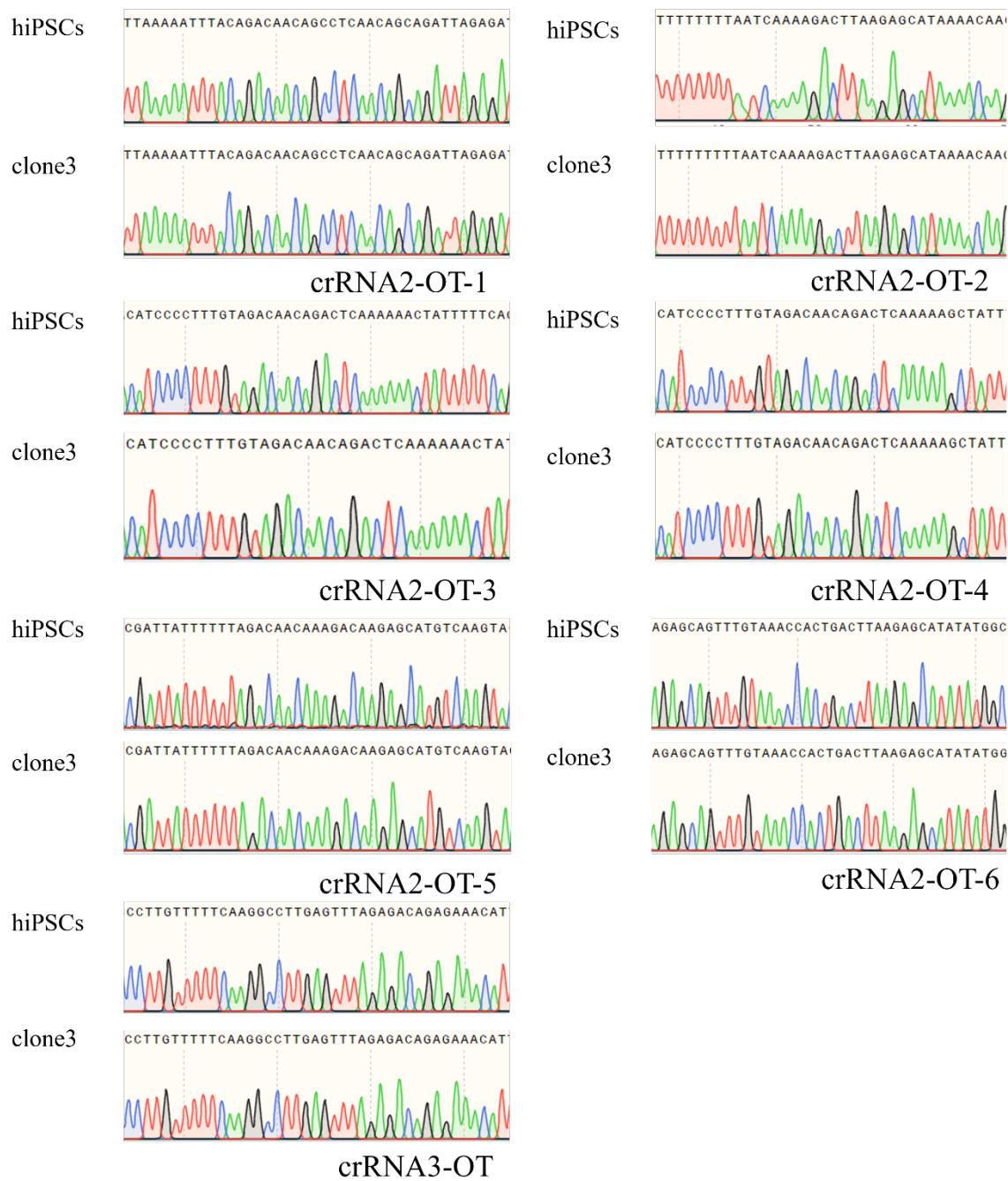
**Figure S4.** Sanger sequencing results of positive clones. Sanger sequencing results showed that Exon 51 was successfully deleted from three positive clones.



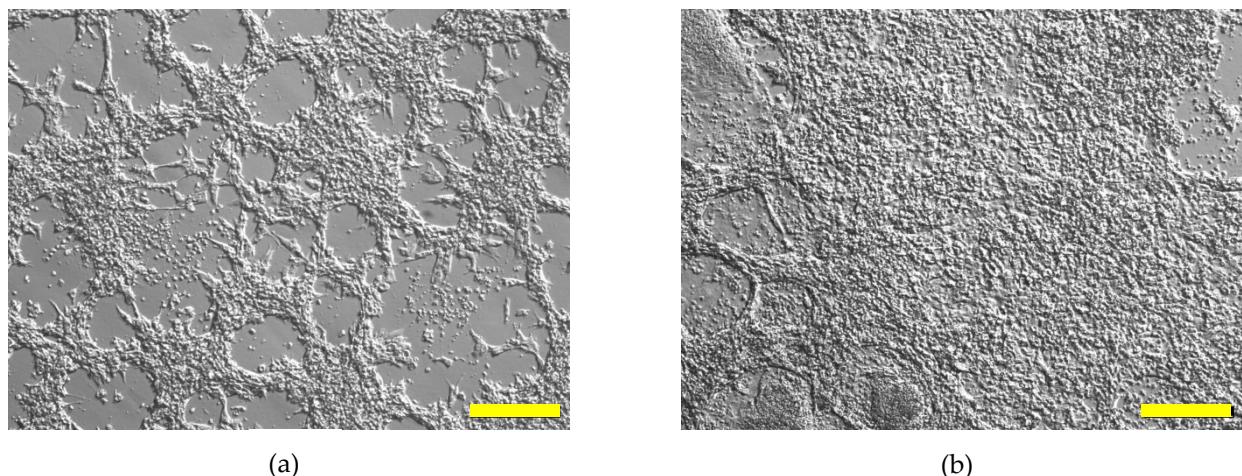
**Figure S5.** Agarose gel electrophoresis diagram showing all bands and molecular weight markers of Figure 3d.



**Figure S6.** Agarose gel electrophoresis diagram showing all bands and molecular weight markers of Figure 3e.



**Figure S7.** Sequencing results of off-target sites. Indels were detected by Sanger sequencing on seven predicted off-target sites in the positive clones. No indels was found in these sites.



(a)

(b)

**Figure S8.** The morphology of cardiomyocytes. (a) The morphology of cardiomyocytes derived from hiPSCs at the day 18. (b) The morphology of cardiomyocytes derived from DMD-iPSCs at the day 18. Scale bar: 250  $\mu$ m.

**Table S1.** All the primers used in the study are showing in the Table.

Name	Sequence
Sap1	F: AGATGGAAGAGCGAGACGGGATCCGTCTCGCTCTTCC R: AAAAGGAAGAGCGAGACGGGATCCGTCTCGCTCTTCC
U6	F: TCTATATCATAATATGAGGGCTATTCCCATGATTCT R: TGAGCCAATATAATGTACaGCCGCGAATTCACTAGTGATCAATTG
GFP-crRNA	F: GATCGTCGCCGTCCAGCTCGACCAGG R: AAACCTGGTCGAGCTGGACGGCGACG
NRL-crRNA	F: GATCCAAGGAAGTGCAAGGCTGCAGGG R: AAACCTGCAAGCCTGCACTTCCTGG
HBB-crRNA	F: GATTGATAGGCAGCCTGCACTGGTGG R: AAACCACCAAGTGCAGGCTGCCTATCA
NRL	F: TTTGCAGACCTTCGCTAGTC R: CAGCAGACCGCCTACATAATC
HBB	F: ATTGACCAAATCAGCGTAATTTCG R: CCAGTTAGTAGTGTGGACTTAGGG
crRNA2	F: GATTAGACAAACAGACTCAAGAGCATA R: AAATATGCTTGTGAGTCTGTGTCTA
crRNA3	F: GATAAGCCCTTGAGCTTGAATACAGA R: AAATCTGATTCAAGCTCAAGGCCCT
chr2	F: AGTGTCACTCACTTCTGGAACAT R: CTACGGGTGAAAGTTGCTACG
chr3	F: GGACCCACCAATGAAAGCTG R: AACCTAACGAAACACTTCCTT
chr5-1	F: CAAGCAGAGCCTTCCGGATG R: GTAACACTACAAGGAACCGTCCTG
chr5-2	F: GTGCAGGCAGAGGAAAGTGGTAA R: AGCCTCTAACACATTGCTTGGTTT
chr5-3	F: TGCTTCAATTCTCAGCCCTGA R: TTGCCCCAGCTGTAGAGGC
chr7	F: TAGCCCAACACAGGGTCTAAG R: CTTTCTGGAGCACTTACATTGG
g3-chr2	F: GCCCTCTGGAGCCTGATTAC R: ACTGCCATGGGATGTAGGG
OriP	F: TTCCACGAGGGTAGTGAACC R: TCGGGGTGTTAGAGACAAC
EBNA-1	F: ATCGTCAAAGCTGCACACAG R: CCCAGGAGTCCCAGTAGTCA
Cpf1	F: TGAGACAGCCCACATCATCGC R: ACCAGTCCAGCAGGTGGTACA
Del-51	F: TCTTAGAATCGTTACTGGTTGTC R: TGAATCCTTGTCTGCTACTTACTGG
RT-51	F: AGCAGTTCAAGCTAACAAACCGG R: CCTAAGACCTGCTCAGCTTCTTC