Figure S2. Distribution of oncogenic mutations in human tissues.

Figure S3. (A) Positive control, insertion of CMV SpCas9 sequence and (B) Negative control: Insertion of AdV-Cas9-sgG12S sequence in plasmids.

Figure S4. (A) Insertion of AdV-Cas9-sgG12S sequence in plasmids. (B) Insertion of AdV-Cas9 sequence in plasmids. (C) Insertion of UP171 viral vector sequence in plasmids. (D) Insertion of CMV SpCas9 sequence in plasmids.

Figure S5. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgAAVS1 in A549 and H2228 cells.

Figure S6. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgTTN in A549 and H2228 cells.

Figure S7. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgKRAS-G12S in A549 and H2228 cells.

Figure S8. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S9. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S10. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S11. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S12. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S13. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S14. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S15. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S16. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S17. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S18. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S19. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.

Figure S20. (A) Distribution of mutations in A549 and H2228 cells. (B) Gene editing efficiency in A549 and H2228 cells. (C) Editing efficiency of sgG12S in A549 and H2228 cells.