

Supplementary Materials

Supplementary Table:

Table S1: Gene sequence analysis possibilities for treating breast cancer via editing *MMP-2*, *MMP-7* and *MMP-9* RNA sequences using CRISPR SpCas9 Genome editing tool.

Gene sequence analysis	MMP 2	MMP 7	MMP 9
Guide RNA Sequence	UAAGGUCACCGUUGCAGGCC	GGGCCGCGGCGCCACCAUGG	AAAGAGCAAGUGACAA AUGU
Gene Knockout Sequence	TAAGGTCACCGTTGCAGGCC	GGGCCGCGGCGCCACCATGG	TGTAAACAGTGAACGAG AAA
Guide RNA Sequence	GUCACCGUUGCAGGCCUGGC	CGCCUGUCGCACCGCCAUGG	GAGCAAGUGACAAAUG UUGG
Gene Knockout Sequence	GTCACCGTTGCAGGCCTGGC	GGUACCGCCACGCUGUCCGC	GGTTGTAAACAGTGAAC GAG
Guide RNA Sequence	GUACUGGGUCUUUCCAGCC	CAGCGCCUGUCGCACCGCCA	GACAAAUGUUGGAGGA GCAG
Gene Knockout Sequence	CCGACCUUUUCUGGGGUCAU G	ACCGCCACGCUGUCCGCGAC	GACGAGGAGGTTGTAA ACAG
Guide RNA Sequence	CAGGACAAAUGACCACAUCA	CGCCACCAUGGCGGUGCGAC	UGUUGGAGGAGCAGUG GUGA
Gene Knockout Sequence	ACUACACCAGUAAACAGGAC	CGCCACCATGGCGGTGCGAC	AGTGGTGACGAGGAGG TTGT

Supplementary figures:

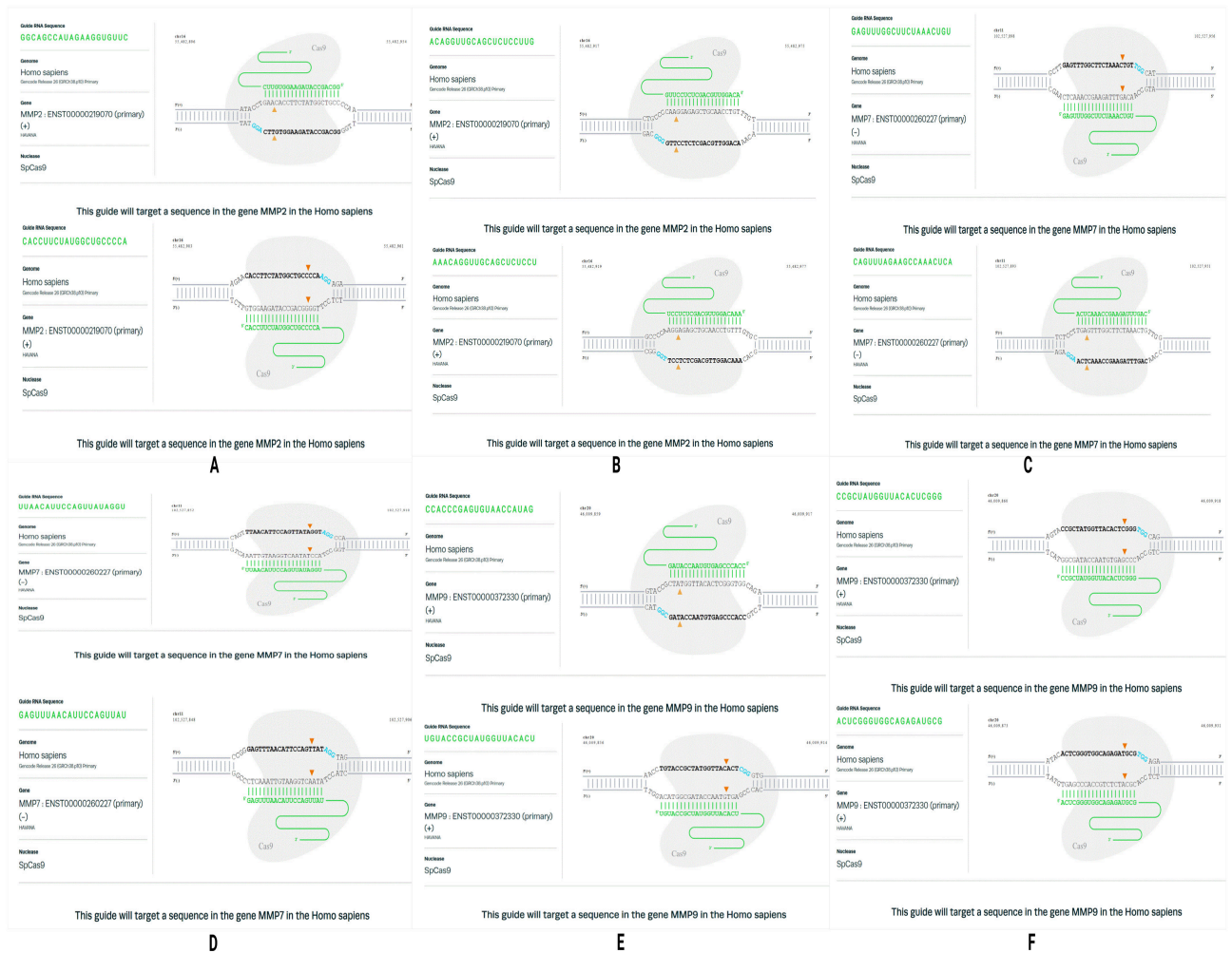


Figure S1. A: Gene knockout possibilities predicted by the CRISPR SpCas9 genome editing tool for *MMP-2*-Target sequence-1 5'GGCAGCCAUAAGAAGGUGUUC3' & Target sequence 2- 5'CACCUUCUAUGGCUGCCCCA3'in *Homo sapiens*.

B: Gene knockout possibilities predicted by the CRISPR SpCas9 genome editing tool for *MMP-2*-Target sequence-3 5'ACAGGUUGCAGUCUCCUUG3' & Target sequence 4- 5'AAACAG GUUGCAGCUCUCCU3'in *Homo sapiens*.

C: Gene knockout possibilities predicted by the CRISPR SpCas9 genome editing tool for *MMP-7*-Target sequence 1 5'GAGUUUGGCUUCUAAACUGU3' & Target sequence 2- 5'CAGUUUAGAAGCCAAACUCA 3'in *Homo sapiens*.

D: Gene knockout possibilities predicted by the CRISPR SpCas9 genome editing tool for *MMP-7*-Target sequence-3 1 5'UUAACAUUCCAGUUAUAGGU3' & Target sequence 4- 5'GAGUUUAAACAUUCCAGUUAU3'in *Homo sapiens*.

E: Gene knockout possibilities predicted by the CRISPR SpCas9 genome editing tool for *MMP-9*-Target sequence-1 5'CCACCCGAGUAUAACC' & Target sequence 2- 5'UGUA CCGCUAUGGUUACACU3'in *Homo sapiens*.

F: Gene knockout possibilities predicted by the CRISPR Spcas9 genome editing tool for *MMP-9*-Target sequence-1 5'CCGCUAUGGUUACACUCGGA3' & Target sequence 2-5'ACUCGGGUGGCAGAGAUGCG3'in *Homo sapiens*.