

Supplementary Table 1 Sequences of sgRNA target sites used in the construction of sgRNA2.0-expression plasmids.

sgRNA	Target site sequence (PAM region) Red color highlighted PAM region, which should be omitted in sgRNA oligo synthesis.
sgRANKL-1	GTGGAAGAGGCAGCCTCGCC TGG
sgRANKL-2	TCCTTCATGGGGGCCCTCCA AGG
sgRANKL-3	CAAGGGGAGTCTGGAACCAC TGG
sgRANKL-4	ATGGGTAAAGAAGACGCAG AGG
sgRANKL-5	CTCCTGCATCCATTCTAGTT TGG
sgRANKL-6	CTTGAAGGTGACATTGAGCG AGG
sgRANKL-7	TAGCCAGAAGCAAGCATCCG AGG
sgRANKL-8	CCTCCTCGGATGCTTGCTT TGG
sgMAGEB2-1	CTTGGCTTTCACGGGAATCA AGG
sgMAGEB2-2	CACCTGTATAGTCTCGGGGA AGG
sgMAGEB2-3	TCGCCATTGTTAGCACCGAG AGG
sgMAGEB2-4	AGAGCCCCCTCGTAACACTT AGG
sgMAGEB2-5	GGGCCATTTCCACTAGTCCA AGG
sgMAGEB2-6	AACACACGAGGCATATTGAT GGG
sgMAGEB2-7	CACCAATGCTGTCACCCTTG GGG
sgMMP2-1	ACTTGCCCTCTCTCGCGATCT GGG
sgMMP2-2	GGTGACGAGGTCGTGCACTG AGG
sgMMP2-3	GTCTGGATGCAGCGGAAACA AGG
sgMMP2-4	AAACATACAAAGGGATTGCC AGG
sgMMP2-5	GCTCCGAGGGTCCGCTGGCT CGG

sgMMP2-6	GCGACCCCCGGGCGACGCGC GGG
sgMMP2-7	ACGCTGTGTGCCACCGCCG AGG
sgMMP2-8	GGGGTCTTTGGCAAGCTAT TGG
sgMMP2-9	TCCCTTCCAGTAGTTTGCC AGG
sgMMP2-10	ACACATCTGGGCAGTTGCTA AGG
sgMMP2-11	ACCAATTTGTCCATTAAGCC AGG
sgMMP2-12	ACAACATCTGAACCGCGGTT TGG
sgMMP2-13	ACAAGGGAGCAGATATCCCC TGG
sgMMP2-14	AGCCTCCCCCTCAACCTGTC CGG