

ChIP primers	Primer	amplicon
mMmp13 TSS ChIP S	TGCCACAAACCACACTTAGGA	137bp
mMmp13 TSS ChIP AS	CCCAGGGCAAGCATCTTCTAT	
mMmp13 -2kb ChIP S	TTCTCCAAGAACAATGCCCCA	119bp
mMmp13 -2kb ChIP AS	TGTTAGCACGAGTTCTGCCAT	
mMmp13 -10kb ChIP S	AGGCCAACTGGTTCAAAGGAA	129bp
mMmp13 -10kb ChIP AS	CAGCGTGTGACTTCAGATTGC	
mMmp13 -20kb ChIP S	CCACCAGACTTCCTACCAAGC	148bp
mMmp13 -20kb ChIP AS	AGCCACCAACTGGAATTAGCA	
mMmp13 -30kb ChIP S	TGCTCAGAGGCAGTTGAGAAG	216bp
mMmp13 -30kb ChIP AS	ATAGGTTAGATCCCCAGCGGT	
mMmp13 +5 Intr Con ChIP S	GCATAAACGTGATGGTGGCAA	129bp
mMmp13 +5 Intr Con ChIP AS	GTTGGGCAGTAACCCATACT	
mMdfi -8kb ChIP S	CTGACTCACACATGACCCCTT	243bp
mMdfi -8kb ChIP AS	TCGAGGACAGTTGTATGTGCC	

Cloning Primers	Primer	amplicon
mMmp13 TSS H3 S	CTCATCAAGCTTTAACCATTTTTGTGGACAGAACTTTGTC	508bp
mMmp13 TSS BHI AS	GGGGCAGGATCCAACAGGGAGTCCAGCTCAACAAGAAG	
mMmp13 -2kb H3 S	AGCAGGAAGCTTTCATTCCTAATTCATCCTAATGTTTTTC	579bp
mMmp13 -2kb BHI AS	CATGTTGGATCCTTACAACATAAGCTCTCTGCAGAAG	
mMmp13 -10kb H3 S	CCTGTGAAGCTTAAGGATGCGCCTATGAAGGTTAGTC	910bp
mMmp13 -10kb BHI AS	GGGAAAGGATCCAAGGAAAGCAGGTAGTTAGGAAAGGAG	
mMmp13 -20kb H3 S	GAATGTAAGCTTGACAAAACAAAGAGACAGAATTCTTAG	482bp
mMmp13 -20kb BHI AS	TTATGAGGATCCTACCTCATTGATACAAATGTTTCCCC	
mMmp13 -30kb H3 S	CACTAAAAGCTTGAGGAGTGAGAGACAGTAAGGATGGG	457bp
mMmp13 -30kb BHI AS	ATTGTGCGGATCCTTCTCTCTCTACCAGCTATGGTGGG	
mMmp13 +5 Intr Con H3 S	ACATTGAAGCTTGCTGCCAGAAGAACCCTTGTGGGCC	553bp
mMmp13 +5 Intr Con BHI AS	CCACACGGATCCTTCTTTGACAATTTCAACAACACTATTG	
LeGO-RUNX2-P2A-GFP-F	AGCTCCTCGCCCTTGCTCACCATGGTGGCGAGGACCGGGGTTTTCT TCCACGTCTCCTGCTTGCTTTAACAGAGAGAAGTTCGTGGCTCCGG ATCCATATGGCCGCAAACAGACTCATCCATTCT	
LeGO-RUNX2-P2A-GFP-R	AGCTCCTCGCCCTTGCTCACCATGGTGGCGAGGACCGGGGTTTTCT TCCACGTCTCCTGCTTGCTTTAACAGAGAGAAGTTCGTGGCTCCGG ATCCATATGGCCGCAAACAGACTCATCCATTCT	
10k-VDRE1-MUT-F	GTCCTGGCCTTTTTTGAGCGGGTTCACATTAGGGGAAA	
10k-VDRE1-MUT-R	TTTCCCCTAATGTGAACCCGCTCAAAAAAGGCCAGGAC	
10k-VDRE2-MUT-F	CTGAGGCCAACTTTTTTAAAGGAATTAATCTGGATG	
10k-VDRE2-MUT-R	CATCCAGATTAATTCCTTTAAAAAAGTTGGCCTCAG	
30k-Runx2-2-MUT-F	TCACAATTTTATGACTTTTTTTAAGATTCTGGCAAATT	
30k-Runx2-2-MUT-R	AATTTTGCCAGGAATCTTAAAAAAGTCATAAAATTGTGA	
30k-Runx2-1-MUT-F	AGATTCCTGGCAAATTGAAACTTTTGGGGATCTAACCTA	
30k-Runx2-1-MUT-R	TAGGTTAGATCCCCAAAAGTTTCAATTTTGCCAGGAATCT	

TaqMan Genes

Beta-actin
Gapdh
Mmp13
Spp1 (Opn)
Runx2
Sp7 (Osx)
Rankl (Tnfsf11)
Vdr

ABI assay ID

4352341E
4352339E
Mm00439491_m1
Mm00436767_m1
Mm00501584_m1
Mm04209856_m1
Mm00441906_m1
Mm00437297_m1

CRISPR guide cloning primers

Mmp13-Pro-G1-S
Mmp13-Pro-G1-AS
Mmp13-Pro-G2-S
Mmp13-Pro-G2-AS
Mmp13-10k-G1-S
Mmp13-10k-G1-AS
Mmp13-10k-G2-S
Mmp13-10k-G2-AS
Mmp13-30k-G1-S
Mmp13-30k-G1-AS
Mmp13-30k-G2-S
Mmp13-30k-G2-AS
Mmp13-VDR-G1-S
Mmp13-VDR-G1-AS
Mmp13-VDR-G2-S
Mmp13-VDR-G2-AS
Mmp13-RUNX2-G1-S
Mmp13-RUNX2-G1-AS
Mmp13-RUNX2-G2-S
Mmp13-RUNX2-G2-AS

primers

CACCGTTCTGCCACAAACCACACTT
AAACAAGTGTGGTTTGTGGCAGAAC
CACCGCCTTCAAGGAAATACAGCA
AAACTGCTGTATTTCTTGAAGGC
CACCGTCCTGGCCTTAGGTGAGC
AAACGCTCACCTAAGGCCAGGACC
CACCGCTGAGGCCAACTGGTTCAA
AAACTTGAACCAGTTGGCCTCAGC
CACCGAGAAGCAACCTACCTACTCA
AAACTGAGTAGGTAGGTTGCTTCTC
CACCGCTGTAGCCCTCGTGAGTCC
AAACGGACTCACGAGGGCTACAGC
CACCGCGGTCAAAGTCACCAGGGTC
AAACGACCCTGGTGACTTTGACCGC
CACCGAGTGTGTGGAGACCGAGCCA
AAACTGGCTCGGTCTCCACACACTC
CACCGCTGTGGTTACCGTCATGGCC
AAACGGCCATGACGGTAACCACAGC
CACCGCCCATCTGGTACCTCTCCGA
AAACTCGGAGAGGTACCAGATGGGC