

Supplemental Figure 1: Targeting construct for engineering PR^{S191A} mice.

A targeting vector containing exon 1 with nucleotide substitutions to create the S191A and the Nhe1 site was electroporated into mouse ES cells. Selection with G418 enriched recovery of the recombinants containing the Neo cassette and FIAU selection ensured homologous recombination eliminating the tk sequences. Correct insertion was verified by Southern blotting using the probes shown.

Supplemental Table 1

List of Primers for qPCR

GENE NAME	FORWARD PRIMER (5' TO 3')	REVERSE PRIMER (5' TO 3')
PR	TGCACCTGATCTAATCCTAAATGA	GGTAAGGCACAGCGAGTAGAA
Ampheregulin	GCGAATGCAGATACATCGAG	CCACACCGTTCACCAAAGTA
lhh	TGCATTGCTCTGTCAAGTCTG	GCTCCCCGTTCTCTAGGC
Muc1	CTGTTCACCACCACCATGAC	CTTGGAAGGGCAAGAAACC
Calcitonin	AGCAGGAGGAAGAGCAGGA	CAGATTCCCACACCGCTTAG
Wnt4	CTGGACTCCCTCCCTGTCTT	ATGCCCTTGTCACTGCAAA
Defb1	GGCTGCCACCACTATGAAA	TGTGAGAATGCCAACACCTG
AP2ß	CTGCATTCCGCACATCAC	TGGCATCTTCAACTGACTGC
GAPDH	GATGCCCCCATGTTTGTGAT	GGTCATGAGCCCTTCCACAAT

Probe/Primer mixes from Applied Biosystems

GENE NAME	CATALOGUE NUMBER		
Fkbp5	Mm00487401_m1		
Bmp2	Mm01962382_s1		
Cox2	Mm00509546_m1		
Wnt4	Mm00437341_m1		
RANKL	Mm00441908_m1		
GAPDH	4352339E		

RANKL D5

RANKL D6

Calcitonin

RANKL		Mm00441908_m1			
GAPDH		4352339E			
List of Primers for ChIP					
GENE	FORWARD PRIMER (5	' TO 3')	REVERSE PRIMER (5' TO 3')		
RANKL D1	CATCTTACCATGACTGTGC	GCTA	ACAACTGTGTCAAGAAGGTCACT		
RANKL D2	CCCACTTCCTTGGCTTCAAAT		CACAAACGCACTGCAAACATG		
RANKL D3	TTGACATGAACTCGGAAA	\GG	CTGCCCTCAGCAAGAGACAT		
RANKL D4	CCAAGGCAAATGATACAT	rgg	ATGGGCCTCAGAAGTAACGA		
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CTGGGGCTGCACTCATTC

AATCTCCACTGCCCATGAAA

GGAGAGGGTTGGGAGACTCT

TTCTCTGTGGGTGAACTCAGG

TCCCGGTTTCCTACATCATT

TGCTTGTCATGGGACAGCTA