

Supplementary Table 1. Commercially acquired inventoried assays for qRT-PCR
(TaqMan™ Gene Expression Assay)

Renin angiotensin system components		
<i>Agt</i>	Angiotensinogen	<i>Rn00593114_m1</i>
<i>Ace</i>	Angiotensin I converting enzyme	<i>Rn00561094_m1</i>
<i>Agt1r</i>	Angiotensin II receptor, type 1	<i>Rn02758772_s1</i>
<i>Agt2r</i>	Angiotensin II receptor, type 2	<i>Rn00560677_s1</i>
<i>Ace2</i>	Angiotensin I converting enzyme 2	<i>Rn01416293_m1</i>
<i>Masr</i>	MAS1 proto-oncogene, G protein-coupled receptor	<i>Rn00562673_s1</i>
Transcription factors		
<i>Runx2</i>	Runt-related transcription factor 2	<i>Rn01512298_m1</i>
<i>Osx/Sp7</i>	Osterix/Sp7 transcription factor	<i>Rn02769744_s1</i>
<i>Ctnnb</i>	β-catenin/Cadherin associated protein beta 1	<i>Rn00584431_g1</i>
<i>Pparg</i>	Peroxisome proliferator-activated receptor gamma	<i>Rn00440945_m1</i>
Bone formation markers		
<i>Alp</i>	Bone alkaline phosphatase	<i>Rn01516028_m1</i>
<i>Col1a1</i>	Collagen type I alpha 1	<i>Rn01463848_m1</i>
<i>Opn/Spp1</i>	Osteopontin/secreted phosphoprotein 1	<i>Rn00681031_m1</i>
<i>Ocn/Bglap</i>	Osteocalcin/Bone gamma-carboxyglutamate protein	<i>Rn00566386_g1</i>
<i>Bsp/Ibsp</i>	Bone sialoprotein/Integrin-binding sialoprotein	<i>Rn00561414_m1</i>
<i>Bmp2</i>	Bone morphogenetic protein 2	<i>Rn00567818_m1</i>
Bone formation/remodeling markers		
<i>Opg</i>	Tumor necrosis factor receptor superfamily member 11b	<i>Rn00563499_m1</i>
<i>Rankl</i>	Tumor necrosis factor ligand superfamily member 11	<i>Rn00589289_m1</i>
<i>Rank</i>	Tumor necrosis factor receptor superfamily member 11a	<i>Rn04340164_m1</i>
<i>Oscar</i>	Osteoclast associated immunoglobulin-like receptor	<i>Rn01530958_m1</i>
<i>Vtn</i>	Vitronectin	<i>Rn01466920_g1</i>
<i>Itgav</i>	Integrin, alpha V	<i>Rn01485633_m1</i>
<i>Itgb5</i>	Integrin, beta 5	<i>Rn01439348_m1</i>
<i>Mmp2</i>	Matrix metalloproteinase 2	<i>Rn01538170_m1</i>
<i>Mmp9</i>	Matrix metalloproteinase 9	<i>Rn00579162_m1</i>
<i>Trap/Acp5</i>	Acid phosphatase 5, tartrate resistant	<i>Rn00569608_m1</i>
<i>Ctsk</i>	Cathepsin K	<i>Rn00580723_m1</i>
Housekeeping gene		
<i>Actb</i>	β-actin	<i>Rn00667869_m1</i>

Supplementary Table 2. Detail and reference from primary antibodies and respective detection systems used for immunohistochemistry assay

Primary antibody	Source	Reference	Manufacturer
Ant-AGT	Mouse	sc-374511	Santa Cruz Biotechnology.
Anti-AT1 (N-10)	Goat	sc-1173-G	Santa Cruz Biotechnology
Anti-AT2 (K-15)	Goat	sc-48452	Santa Cruz Biotechnology
Anti-ACE (H-170)	Rabbit	sc-20791	Santa Cruz Biotechnology
Anti-ACE2 (H-175)	Rabbit	sc-20998	Santa Cruz Biotechnology
Anti-MAS1 (G-1)	Mouse	sc-390453	Santa Cruz Biotechnology
Detection system	Detection	Reference	Manufacturer
Histofine® Simple Stain™ Rat MAX PO (MULTI)	Mouse and rabbit antibodies	414191F	Nichirei Biosciences
Histofine® Simple Stain™ Rat MAX PO (G)	Goat antibody	414331F	Nichirei Biosciences