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Appendix

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Beta-arrestin2 regulates parathyroid hormone effects on a p38 MAPK and
NFkappaB gene expression network in osteoblasts

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Supplemental Table 2. Sequences and corresponding genes significantly regulated by i.PTH, c.PTH and both treatments.

Sequence	Gene Symbol	Description	Fold change	
			i.PTH vs Veh	c.PTH vs Veh
1420401_a_at	<i>Ramp3</i>	receptor (calcitonin) activity modifying protein 3	25.0	-
1449031_at	<i>Cited1</i>	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1	16.3	-
1431613_a_at	<i>Kcnk10</i>	potassium channel, subfamily K, member 10	16.1	-
1417956_at	<i>Cidea</i>	cell death-inducing DNA fragmentation factor, alpha subunit-like effector A	13.5	-
1451547_at	<i>Iyd</i>	iodotyrosine deiodinase	7.8	-
1438370_x_at	<i>Dos</i>	downstream of Stk11	5.8	-
1419083_at	<i>Tnfsf11</i>	tumor necrosis factor (ligand) superfamily, member 11	5.1	-
1450297_at	<i>Il6</i>	interleukin 6	5.0	-
1418176_at	<i>Vdr</i>	vitamin D receptor	4.7	-
1418175_at	<i>Vdr</i>	vitamin D receptor	4.6	-
1417373_a_at	<i>Tuba4</i>	tubulin, alpha 4	4.0	-
1421855_at	<i>Fgl2</i>	fibrinogen-like protein 2	3.8	-
1418295_s_at	<i>Dgat1</i>	diacylglycerol O-acyltransferase 1	3.8	-
1433494_at	<i>Dos</i>	downstream of Stk11	3.4	-
1423506_a_at	<i>Nnat</i>	neuronatin	3.4	-
1418930_at	<i>Cxcl10</i>	chemokine (C-X-C motif) ligand 10	3.3	-
1417545_at	<i>Trpv4</i>	transient receptor potential cation channel, subfamily V, member 4	3.3	-
1422317_a_at	<i>Il1rl1</i>	interleukin 1 receptor-like 1	3.2	-
1455269_a_at	<i>Coro1a</i>	coronin, actin binding protein 1A	3.1	-
1456601_x_at	<i>Fxyd2</i>	FXYD domain-containing ion transport regulator 2	3.1	-
1417063_at	<i>C1qb</i>	complement component 1, q subcomponent, beta polypeptide	3.1	-
1451006_at	<i>Xdh</i>	xanthine dehydrogenase	3.0	-
1425145_at	<i>Il1rl1</i>	interleukin 1 receptor-like 1	3.0	-
1422477_at	<i>Cables1</i>	Cdk5 and Abl enzyme substrate 1	3.0	-
1420664_s_at	<i>Procr</i>	protein C receptor, endothelial	3.0	-
1452004_at	<i>Calca</i>	calcitonin/calcitonin-related polypeptide, alpha	2.9	-
1416246_a_at	<i>Coro1a</i>	coronin, actin binding protein 1A	2.9	-
1425357_a_at	<i>Grem1</i>	gremlin 1	2.9	-
1422953_at	<i>Fpr2</i>	formyl peptide receptor 2	2.8	-
1449533_at	<i>Tmem100</i>	transmembrane protein 100	2.8	-
1417381_at	<i>C1qa</i>	complement component 1, q subcomponent, alpha polypeptide	2.8	-

1437726_x_at	<i>C1qb</i>	complement component 1, q subcomponent, beta polypeptide	2.8	-
1450020_at	<i>Cx3cr1</i>	chemokine (C-X3-C) receptor 1	2.8	-
1421009_at	<i>Rsad2</i>	radical S-adenosyl methionine domain containing 2	2.7	-
1449401_at	<i>C1qc</i>	complement component 1, q subcomponent, C chain	2.7	-
1451715_at	<i>Mafb</i>	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	2.7	-
1419379_x_at	<i>Fxyd2</i>	FXYP domain-containing ion transport regulator 2	2.7	-
1417357_at	<i>Emd</i>	emerin	2.6	-
1424302_at	<i>Lilrb3</i>	leucocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	2.6	-
1434366_x_at	<i>C1qb</i>	complement component 1, q subcomponent, beta polypeptide	2.6	-
1448649_at	<i>Enpep</i>	glutamyl aminopeptidase	2.6	-
1416203_at	<i>Aqp1</i>	aquaporin 1	2.6	-
1419357_at	<i>Isy1</i>	ISY1 splicing factor homolog (<i>S. cerevisiae</i>)	2.5	-
1460218_at	<i>Cd52</i>	CD52 antigen	2.5	-
1424560_at	<i>Pstpip1</i>	proline-serine-threonine phosphatase-interacting protein 1	2.5	-
1419378_a_at	<i>Fxyd2</i>	FXYP domain-containing ion transport regulator 2	2.5	-
1419004_s_at	<i>Bcl2a1a</i>	B-cell leukemia/lymphoma 2 related protein A1a	2.5	-
1425214_at	<i>P2ry6</i>	pyrimidinergic receptor P2Y, G-protein coupled, 6	2.5	-
1417620_at	<i>Rac2</i>	RAS-related C3 botulinum substrate 2	2.5	-
1417625_s_at	<i>Cxcr7</i>	chemokine (C-X-C motif) receptor 7	2.5	-
1419631_at	<i>Was</i>	Wiskott-Aldrich syndrome homolog (human)	2.5	-
1416956_at	<i>Kcnab2</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 2	2.5	-
1419684_at	<i>Ccl8</i>	chemokine (C-C motif) ligand 8	2.4	-
1420697_at	<i>Slc15a3</i>	solute carrier family 15, member 3	2.4	-
1449222_at	<i>Ebi3</i>	Epstein-Barr virus induced gene 3	2.4	-
1451680_at	<i>Srxn1</i>	sulfiredoxin 1 homolog (<i>S. cerevisiae</i>)	2.4	-
1451987_at	<i>Arb2</i>	arrestin, beta 2	2.4	-
1448891_at	<i>Fcrls</i>	Fc receptor-like S, scavenger receptor	2.4	-
1418204_s_at	<i>Aif1</i>	allograft inflammatory factor 1	2.4	-
1438377_x_at	<i>Slc13a3</i>	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	2.4	-
1417374_at	<i>Tuba4</i>	tubulin, alpha 4	2.3	-
1449037_at	<i>Crem</i>	cAMP responsive element modulator	2.3	-
1422903_at	<i>Ly86</i>	lymphocyte antigen 86	2.3	-
1426875_s_at	<i>Srxn1</i>	sulfiredoxin 1 homolog (<i>S. cerevisiae</i>)	2.3	-
1451596_a_at	<i>Sphk1</i>	sphingosine kinase 1	2.3	-

1418747_at	<i>Sfpi1</i>	SFFV proviral integration 1	2.3	-
1452117_a_at	<i>Fyb</i>	FYN binding protein	2.3	-
1451463_at	<i>Arhgap8</i>	Rho GTPase activating protein 8	2.2	-
1418465_at	<i>Ncf4</i>	neutrophil cytosolic factor 4	2.2	-
1452279_at	<i>Cfp</i>	complement factor properdin	2.2	-
1417542_at	<i>Rps6ka2</i>	ribosomal protein S6 kinase, polypeptide 2	2.2	-
1417268_at	<i>Cd14</i>	CD14 antigen	2.2	-
1450792_at	<i>Tyrobp</i>	TYRO protein tyrosine kinase binding protein	2.2	-
1416239_at	<i>Ass1</i>	argininosuccinate synthetase 1	2.2	-
1451767_at	<i>Ncf1</i>	neutrophil cytosolic factor 1	2.2	-
1460188_at	<i>Ptpn6</i>	protein tyrosine phosphatase, non-receptor type 6	2.2	-
1456014_s_at	<i>Fermt3</i>	Fermitin family homolog 3 (Drosophila)	2.2	-
1418340_at	<i>Fcer1g</i>	Fc receptor, IgE, high affinity I, gamma polypeptide	2.2	-
1418752_at	<i>Aldh3a1</i>	aldehyde dehydrogenase family 3, subfamily A1	2.1	-
1435477_s_at	<i>Fcgr2b</i>	Fc receptor, IgG, low affinity IIb	2.1	-
1419125_at	<i>Ptpn18</i>	protein tyrosine phosphatase, non-receptor type 18	2.1	-
1448591_at	<i>Ctss</i>	cathepsin S	2.1	-
1426808_at	<i>Lgals3</i>	lectin, galactose binding, soluble 3	2.1	-
1452591_a_at	<i>Fam128b</i>	family with sequence similarity 128, member B	2.1	-
1438385_s_at	<i>Gpt2</i>	glutamic pyruvate transaminase (alanine aminotransferase) 2	2.1	-
1421792_s_at	<i>Trem2</i>	triggering receptor expressed on myeloid cells 2	2.1	-
1419483_at	<i>C3ar1</i>	complement component 3a receptor 1	2.1	-
1419872_at	<i>Csf1r</i>	colony stimulating factor 1 receptor	2.1	-
1418396_at	<i>Gpsm3</i>	G-protein signalling modulator 3 (AGS3-like, C. elegans)	2.1	-
1418133_at	<i>Bcl3</i>	B-cell leukemia/lymphoma 3	2.1	-
1419873_s_at	<i>Csf1r</i>	colony stimulating factor 1 receptor	2.1	-
1416480_a_at	<i>Hig1</i>	hypoxia induced gene 1	2.1	-
1416714_at	<i>Irf8</i>	interferon regulatory factor 8	2.0	-
1450672_a_at	<i>Trex1</i>	three prime repair exonuclease 1	2.0	-
1415983_at	<i>Lcp1</i>	lymphocyte cytosolic protein 1	2.0	-
1426584_a_at	<i>Sord</i>	sorbitol dehydrogenase	2.0	-
1423593_a_at	<i>Csf1r</i>	colony stimulating factor 1 receptor	2.0	-
1419194_s_at	<i>Gmfg</i>	glia maturation factor, gamma	2.0	-
1417719_at	<i>Sap30</i>	sin3 associated polypeptide	2.0	-
1448529_at	<i>Thbd</i>	thrombomodulin	2.0	-

1416481_s_at	<i>Hig1</i>	hypoxia induced gene 1	2.0	-
1449455_at	<i>Hck</i>	hemopoietic cell kinase	2.0	-
1449164_at	<i>Cd68</i>	CD68 antigen	2.0	-
1448411_at	<i>Wfs1</i>	Wolfram syndrome 1 homolog (human)	2.0	-
1448188_at	<i>Ucp2</i>	uncoupling protein 2 (mitochondrial, proton carrier)	2.0	-
1420566_at	None		1.9	-
1451780_at	<i>Blnk</i>	B-cell linker	1.9	-
1450750_a_at	<i>Nr4a2</i>	nuclear receptor subfamily 4, group A, member 2	1.9	-
1425099_a_at	<i>Arntl</i>	aryl hydrocarbon receptor nuclear translocator-like	1.9	-
1448160_at	<i>Lcp1</i>	lymphocyte cytosolic protein 1	1.9	-
1433963_a_at	<i>Fermt3</i>	Fermitin family homolog 3 (Drosophila)	1.9	-
1424140_at	<i>Gale</i>	galactose-4-epimerase, UDP	1.9	-
1432466_a_at	<i>ApoE</i>	apolipoprotein E	1.9	-
1422124_a_at	<i>Ptprc</i>	protein tyrosine phosphatase, receptor type, C	1.9	-
1423915_at	<i>Olfml2b</i>	olfactomedin-like 2B	1.9	-
1424126_at	<i>Alas1</i>	aminolevulinic acid synthase 1	1.9	-
1438183_x_at	<i>Sord</i>	sorbitol dehydrogenase	1.9	-
1415964_at	<i>Scd1</i>	stearoyl-Coenzyme A desaturase 1	1.9	-
1436905_x_at	<i>Laptm5</i>	lysosomal-associated protein transmembrane 5	1.9	-
1438116_x_at	<i>Slc9a3r1</i>	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	1.9	-
1438115_a_at	<i>Slc9a3r1</i>	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	1.9	-
1417193_at	<i>Sod2</i>	superoxide dismutase 2, mitochondrial	1.9	-
1449359_at	<i>Pax1</i>	paired box gene 1	1.9	-
1433678_at	<i>Pld4</i>	phospholipase D family, member 4	1.9	-
1416200_at	<i>Il33</i>	interleukin 33	1.9	-
1455007_s_at	<i>Gpt2</i>	glutamic pyruvate transaminase (alanine aminotransferase) 2	1.9	-
1451941_a_at	<i>Fcgr2b</i>	Fc receptor, IgG, low affinity IIb	1.8	-
1416382_at	<i>Ctsc</i>	cathepsin C	1.8	-
1418901_at	<i>Cebpb</i>	CCAAT/enhancer binding protein (C/EBP), beta	1.8	-
1448303_at	<i>Gpnmb</i>	glycoprotein (transmembrane) nmb	1.8	-
1452385_at	<i>Usp53</i>	ubiquitin specific protease 53	1.8	-
1448610_a_at	<i>Sod2</i>	superoxide dismutase 2, mitochondrial	1.8	-
1450199_a_at	<i>Stab1</i>	stabilin 1	1.8	-
1417978_at	<i>Eif4e3</i>	eukaryotic translation initiation factor 4E member 3	1.8	-
1419599_s_at	<i>Ms4a6d</i>	membrane-spanning 4-domains, subfamily A, member 6D	1.8	-

1426025_s_at	<i>Laptm5</i>	lysosomal-associated protein transmembrane 5	1.8	-
1422557_s_at	<i>Mt1</i>	metallothionein 1	1.8	-
1448123_s_at	<i>Tgfb1</i>	transforming growth factor, beta induced	1.8	-
1426968_a_at	<i>Rdh10</i>	retinol dehydrogenase 10 (all-trans)	1.8	-
1416229_at	<i>Rfk</i>	riboflavin kinase	1.8	-
1424775_at	<i>Oas1a</i>	2'-5' oligoadenylate synthetase 1A	1.8	-
1423768_at	<i>Unc93b1</i>	unc-93 homolog B1 (C. elegans)	1.8	-
1448908_at	<i>Ppap2b</i>	phosphatidic acid phosphatase type 2B	1.7	-
1421321_a_at	<i>Net1</i>	neuroepithelial cell transforming gene 1	1.7	-
1417068_a_at	<i>Ptpn1</i>	protein tyrosine phosphatase, non-receptor type 1	1.7	-
1450234_at	<i>Ms4a6c</i>	membrane-spanning 4-domains, subfamily A, member 6C	1.7	-
1419519_at	<i>Igf1</i>	insulin-like growth factor 1	1.7	-
1425423_at	<i>Glis1</i>	GLIS family zinc finger 1	1.7	-
1449195_s_at	<i>Cxcl16</i>	chemokine (C-X-C motif) ligand 16	1.7	-
1452016_at	<i>Alox5ap</i>	arachidonate 5-lipoxygenase activating protein	1.7	-
1448620_at	<i>Fcgr3</i>	Fc receptor, IgG, low affinity III	1.7	-
1452418_at	1200016E24RIK	RIKEN cDNA 1200016E24 gene	1.7	-
1415802_at	<i>Slc16a1</i>	solute carrier family 16 (monocarboxylic acid transporters), member 1	1.7	-
1419879_s_at	<i>Trim25</i>	tripartite motif protein 25	1.7	-
1423306_at	2010002N04RIK	RIKEN cDNA 2010002N04 gene	1.7	-
1448417_at	<i>Ninj1</i>	ninjurin 1	1.7	-
1429514_at	<i>Ppap2b</i>	phosphatidic acid phosphatase type 2B	1.7	-
1424214_at	9130213B05RIK	RIKEN cDNA 9130213B05 gene	1.7	-
1453238_s_at	1200016E24RIK	RIKEN cDNA 1200016E24RIK gene	1.7	-
1427844_a_at	<i>Cebpb</i>	CCAAT/enhancer binding protein (C/EBP), beta	1.7	-
1424296_at	<i>Gclc</i>	glutamate-cysteine ligase, catalytic subunit	1.7	-
1416693_at	<i>Foxc2</i>	forkhead box C2	1.7	-
1448883_at	<i>Lgmn</i>	legumain	1.7	-
1417638_at	<i>Lefty1</i>	left right determination factor 1	1.7	-
1418718_at	<i>Cxcl16</i>	chemokine (C-X-C motif) ligand 16	1.7	-
1422528_a_at	<i>Zfp361l</i>	zinc finger protein 36, C3H type-like 1	1.7	-
1420361_at	<i>Slc11a1</i>	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	1.7	-
1460253_at	<i>Cmtm7</i>	CKLF-like MARVEL transmembrane domain containing 7	1.7	-
1427932_s_at	1200016E24RIK 9030221C07RIK	RIKEN cDNA 1200003I10 gene /// RIKEN cDNA 1200016E24 gene /// RIKEN cDNA A130040M12 gene /// RIKEN cDNA E430024C06 gene /// hypothetical gene	1.6	-

supported by AK004796; BC040222 /// similar to LRRGT00049 /// similar to LRRGT00049

1424754_at	<i>Ms4a7</i>	membrane-spanning 4-domains, subfamily A, member 7	1.6	-
1418841_s_at	<i>Cdc21l</i>	cell division cycle 2-like 1	1.6	-
1452599_s_at	<i>AI413582</i>	expressed sequence AI413582	1.6	-
1423871_at	<i>Tmem63a</i>	transmembrane protein 63a	1.6	-
1456516_x_at	<i>Uap1</i>	UDP-N-acetylglucosamine pyrophosphorylase 1	1.6	-
1423233_at	<i>Cebpd</i>	CCAAT/enhancer binding protein (C/EBP), delta	1.6	-
1425974_a_at	<i>Trim25</i>	tripartite motif protein 25	1.6	-
1417756_a_at	<i>Lsp1</i>	lymphocyte specific 1	1.6	-
1425993_a_at	<i>Hsph1</i>	heat shock 105kDa/110kDa protein 1	1.6	-
1451386_at	<i>Blvrb</i>	biliverdin reductase B (flavin reductase (NADPH))	1.6	-
1415737_at	<i>Rfk</i>	riboflavin kinase	1.6	-
1437490_x_at	<i>Uap1</i>	UDP-N-acetylglucosamine pyrophosphorylase 1	1.6	-
1416101_a_at	<i>Hist1h1c</i>	histone cluster 1, H1c	1.6	-
1424381_at	<i>Sf4</i>	splicing factor 4	1.6	-
1416230_at	<i>Rfk</i>	riboflavin kinase	1.6	-
1430700_a_at	<i>Pla2g7</i>	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	1.6	-
1436994_a_at	<i>Hist1h1c</i>	histone cluster 1, H1c	1.6	-
1451174_at	<i>Lrrc33</i>	leucine rich repeat containing 33	1.6	-
1424171_a_at	<i>Hagh</i>	hydroxyacyl glutathione hydrolase	1.6	-
1435602_at	<i>Seps2</i>	selenophosphate synthetase 2	1.6	-
1450034_at	<i>Stat1</i>	signal transducer and activator of transcription 1	1.6	-
1449107_at	<i>Nudt4</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 4	1.6	-
1452414_s_at	<i>Ccdc86</i>	coiled-coil domain containing 86	1.6	-
1423611_at	<i>Alpl</i>	alkaline phosphatase 2, liver	1.6	-
1422465_a_at	<i>Nxn</i>	nucleoredoxin	1.6	-
1450033_a_at	<i>Stat1</i>	signal transducer and activator of transcription 1	1.6	-
1431292_a_at	<i>Twf2</i>	Twinfilin, actin-binding protein, homolog 2 (Drosophila)	1.6	-
1417856_at	<i>Relb</i>	avian reticuloendotheliosis viral (v-rel) oncogene related B	1.6	-
1450355_a_at	<i>Capg</i>	capping protein (actin filament), gelsolin-like	1.6	-
1428942_at	<i>Mt2</i>	metallothionein 2	1.5	-
1417426_at	<i>Srgn</i>	serglycin	1.5	-
1451751_at	<i>Ddit4l</i>	DNA-damage-inducible transcript 4-like	1.5	-
1418509_at	<i>Cbr2</i>	carbonyl reductase 2	1.5	-

1416743_at	<i>Uap1</i>	UDP-N-acetylglucosamine pyrophosphorylase 1	1.5	-
1418300_a_at	<i>Mknk2</i>	MAP kinase-interacting serine/threonine kinase 2	1.5	-
1452381_at	<i>Creb3l2</i>	cAMP responsive element binding protein 3-like 2	1.5	-
1450644_at	<i>Zfp361l1</i>	zinc finger protein 36, C3H type-like 1	1.5	-
1437013_x_at	<i>Atp6v0b</i>	ATPase, H ⁺ transporting, V0 subunit B	1.5	-
1438948_x_at	<i>Tspo</i>	translocator protein	1.5	-
1448279_at	<i>Arc3</i>	actin related protein 2/3 complex, subunit 3	1.5	-
1448263_a_at	<i>Cndp2</i>	CNDP dipeptidase 2 (metallopeptidase M20 family)	1.5	-
1417434_at	<i>Gpd2</i>	glycerol phosphate dehydrogenase 2, mitochondrial	1.5	-
1454268_a_at	<i>Cyba</i>	cytochrome b-245, alpha polypeptide	1.5	-
1438627_x_at	<i>Pgd</i>	phosphogluconate dehydrogenase	1.5	-
1439234_a_at	<i>Tm2d2</i>	TM2 domain containing 2	1.5	-
1438181_x_at	<i>Tm2d2</i>	TM2 domain containing 2	1.5	-
1422544_at	<i>Myo10</i>	myosin X	-1.5	-
1419666_x_at	<i>Nupr1</i>	nuclear protein 1	-1.5	-
1416468_at	<i>Aldh1a1</i>	aldehyde dehydrogenase family 1, subfamily A1	-1.5	-
1416302_at	<i>Ebf1</i>	early B-cell factor 1	-1.5	-
1460258_at	<i>Lect1</i>	leukocyte cell derived chemotaxin 1	-1.5	-
1433581_at	1190002N15RIK	RIKEN cDNA 1190002N15 gene	-1.5	-
1415775_at	<i>Rbbp7</i>	retinoblastoma binding protein 7	-1.5	-
1419055_a_at	<i>Ptpn21</i>	protein tyrosine phosphatase, non-receptor type 21	-1.5	-
1429582_at	<i>Nacc2</i>	Nucleus accumbens associated 2, BEN and BTB (POZ) domain containing	-1.5	-
1425572_a_at	<i>Asap1</i>	ArfGAP with SH# domain, ankyrin repeat and PH domain 1	-1.5	-
1422499_at	<i>Limal</i>	LIM domain and actin binding 1	-1.5	-
1449551_at	<i>Myo1c</i>	myosin IC	-1.5	-
1426945_at	<i>Ipo5</i>	Importin 5	-1.5	-
1423054_at	<i>Wdr1</i>	WD repeat domain 1	-1.5	-
1450851_at	<i>Wdr1</i>	WD repeat domain 1	-1.5	-
1419123_a_at	<i>Pdgfc</i>	platelet-derived growth factor, C polypeptide	-1.5	-
1428372_at	<i>St5</i>	suppression of tumorigenicity 5	-1.5	-
1452718_at	<i>Ubr5</i>	ubiquitin protein ligase E3 component n-recognin 5	-1.5	-
1428319_at	<i>Pdlim7</i>	PDZ and LIM domain 7	-1.5	-
1417240_at	<i>Zyx</i>	zyxin	-1.5	-
1423505_at	<i>Tagln</i>	transgelin	-1.5	-
1456174_x_at	<i>Ndrgl</i>	N-myc downstream regulated gene 1	-1.5	-

1434510_at	<i>Papss2</i>	3'-phosphoadenosine 5'-phosphosulfate synthase 2	-1.5	-
1416319_at	<i>Adk</i>	adenosine kinase	-1.5	-
1423413_at	<i>Ndrp1</i>	N-myc downstream regulated gene 1	-1.5	-
1423942_a_at	<i>Camk2g</i>	calcium/calmodulin-dependent protein kinase II gamma	-1.6	-
1423104_at	<i>Irs1</i>	insulin receptor substrate 1	-1.6	-
1423721_at	<i>Tpm1</i>	tropomyosin 1, alpha	-1.6	-
1418201_at	<i>Plekhg2</i>	pleckstrin homology domain containing, family G (with RhoGef domain) member 2	-1.6	-
1424988_at	<i>Mylip</i>	myosin regulatory light chain interacting protein	-1.6	-
1450976_at	<i>Ndrp1</i>	N-myc downstream regulated gene 1	-1.6	-
1452220_at	<i>Dock1</i>	dedicator of cyto-kinesis 1	-1.6	-
1452670_at	<i>Myl9</i>	myosin, light polypeptide 9, regulatory	-1.6	-
1423941_at	<i>Camk2g</i>	calcium/calmodulin-dependent protein kinase II gamma	-1.6	-
1415973_at	<i>Marcks</i>	Myristoylated alanine rich protein kinase C substrate	-1.6	-
1426918_at	<i>Itgb1</i>	integrin beta 1 (fibronectin receptor beta)	-1.6	-
1422243_at	<i>Fgf7</i>	fibroblast growth factor 7	-1.6	-
1423825_at	<i>Gpr177</i>	G protein-coupled receptor 177	-1.6	-
1436714_at	<i>Lpp</i>	LIM domain containing preferred translocation partner in lipoma	-1.6	-
1436737_a_at	<i>Sorbs1</i>	sorbin and SH3 domain containing 1	-1.6	-
1454610_at	<i>Sept7</i>	septin 7	-1.6	-
1417355_at	<i>Peg3</i>	paternally expressed 3	-1.6	-
1421811_at	<i>THBS1</i>	thrombospondin 1	-1.6	-
1420760_s_at	<i>Ndrp1</i>	N-myc downstream regulated-like	-1.6	-
1423294_at	<i>Mest</i>	mesoderm specific transcript	-1.6	-
1417673_at	<i>Grb14</i>	growth factor receptor bound protein 14	-1.6	-
1452223_s_at	<i>Gcap14</i>	granule cell antiserum positive 14	-1.6	-
1417472_at	<i>Myh9</i>	myosin, heavy polypeptide 9, non-muscle	-1.6	-
1454890_at	<i>Amot</i>	angiominin	-1.6	-
1450981_at	<i>Cnn2</i>	calponin 2	-1.6	-
1417065_at	<i>Egr1</i>	early growth response 1	-1.6	-
1423725_at	<i>Pls3</i>	plastin 3 (T-isoform)	-1.6	-
1415704_a_at	<i>Cdv3</i>	carnitine deficiency-associated gene expressed in ventricle 3	-1.6	-
1435463_s_at	<i>Myo1d</i>	myosin ID	-1.6	-
1460192_at	<i>Osbpl1a</i>	oxysterol binding protein-like 1A	-1.6	-
1425826_a_at	<i>Sorbs1</i>	sorbin and SH3 domain containing 1	-1.6	-
1423449_a_at	<i>Actn4</i>	actinin alpha 4	-1.6	-

1420965_a_at	<i>Enc1</i>	ectodermal-neural cortex 1	-1.6	-
1419380_at	<i>Zfp423</i>	zinc finger protein 423	-1.6	-
1419663_at	<i>Ogn</i>	osteoglycin	-1.6	-
1424923_at	<i>Serpina3g</i>	serine (or cysteine) proteinase inhibitor, clade A, member 3G	-1.6	-
1454636_at	<i>Cbx5</i>	chromobox homolog 5 (Drosophila HP1a)	-1.7	-
1448593_at	<i>Wosp1</i>	WNT1 inducible signaling pathway protein 1	-1.7	-
1454899_at	<i>Lpp</i>	LIM domain containing preferred translocation partner in lipoma	-1.7	-
1424987_at	5430435G22RIK	RIKEN cDNA 5430435G22 gene	-1.7	-
1422450_at	<i>Ctnnd1</i>	catenin (cadherin associated protein), delta 1	-1.7	-
1416652_at	<i>Aspn</i>	asporin	-1.7	-
1426319_at	<i>Pdgfd</i>	platelet-derived growth factor, D polypeptide	-1.7	-
1460224_at	<i>Snx2</i>	sorting nexin 2	-1.7	-
1448545_at	<i>Sdc2</i>	syndecan 2	-1.7	-
1424586_at	<i>Ehbp1</i>	EH domain binding protein 1	-1.7	-
1421594_a_at	<i>Sytl2</i>	synaptotagmin-like 2	-1.7	-
1433924_at	None		-1.7	-
1417124_at	<i>Dstn</i>	destrin	-1.7	-
1416483_at	<i>Ttc3</i>	tetratricopeptide repeat domain 3	-1.7	-
1425829_a_at	<i>Steap4</i>	STEAP family member 4	-1.7	-
1450647_at	<i>Hps3</i>	Hermansky-Pudlak syndrome 3 homolog (human)	-1.7	-
1454959_s_at	<i>Gnai1</i>	guanine nucleotide binding protein (G protein), alpha inhibiting 1	-1.7	-
1417435_at	<i>Large</i>	like-glycosyltransferase	-1.7	-
1450079_at	<i>Nrk</i>	Nik related kinase	-1.7	-
1449520_at	<i>Ttc28</i>	tetratricopeptide repeat domain 28	-1.7	-
1424680_at	<i>Fam26e</i>	family with sequence similarity 26, memberE	-1.7	-
1451734_a_at	<i>Dbn1</i>	drebrin 1	-1.7	-
1428585_at	<i>Actn1</i>	actinin, alpha 1	-1.7	-
1429052_at	<i>Ptprd</i>	protein tyrosine phosphatase, receptor type, D	-1.7	-
1452387_a_at	<i>Amotl2</i>	Angiomotin-like 2	-1.7	-
1417011_at	<i>Sdc2</i>	syndecan 2	-1.7	-
1452415_at	<i>Actn1</i>	actinin, alpha 1	-1.7	-
1426825_at	<i>Fmnl3</i>	formin-like 3	-1.7	-
1417092_at	<i>Pth1r</i>	parathyroid hormone 1 receptor	-1.7	-
1424568_at	<i>Tspan2</i>	tetraspanin 2	-1.7	-
1425491_at	<i>Bmpr1a</i>	bone morphogenetic protein receptor, type 1A	-1.7	-

1435106_at	<i>Limch1</i>	LIM and calponin homology domains 1	-1.7	-
1449885_at	<i>Tmem47</i>	transmembrane protein 47	-1.7	-
1426024_a_at	<i>Dbn1</i>	drebrin 1	-1.7	-
1450889_at	<i>Hltf</i>	helicase-like transcription factor	-1.7	-
1419465_at	<i>Nkd2</i>	naked cuticle 2 homolog (Drosophila)	-1.8	-
1417408_at	<i>F3</i>	coagulation factor III	-1.8	-
1450945_at	<i>Prka</i>	protein kinase C, alpha	-1.8	-
1425494_s_at	<i>Bmpr1a</i>	bone morphogenetic protein receptor, type 1A	-1.8	-
1425493_at	<i>Bmpr1a</i>	bone morphogenetic protein receptor, type 1A	-1.8	-
1448700_at	<i>G0s2</i>	G0/G1 switch gene 2	-1.8	-
1452222_at	<i>Utrn</i>	utrophin	-1.8	-
1431920_a_at	<i>Il34</i>	interleukin 34	-1.8	-
1456623_at	<i>Tpm1</i>	tropomyosin 1, alpha	-1.8	-
1434839_s_at	<i>Tbl1xr1</i>	transducin (beta)-like 1X-linked receptor 1	-1.8	-
1419295_at	<i>Creb3l1</i>	cAMP responsive element binding protein 3-like 1	-1.8	-
1427385_s_at	<i>Actn1</i>	actinin, alpha 1	-1.8	-
1423919_at	BC023882	cDNA sequence BC023882	-1.8	-
1423049_a_at	<i>Tpm1</i>	tropomyosin 1, alpha	-1.8	-
1434180_at	<i>Fermt2</i>	fermitin family homolog 2 (Drosophila)	-1.8	-
1424927_at	<i>Gliplr1</i>	GLI pathogenesis-related 1 (glioma)	-1.8	-
1418673_at	<i>Snai2</i>	snail homolog 2 (Drosophila)	-1.8	-
1421933_at	<i>Cbx5</i>	chromobox homolog 5 (Drosophila HP1a)	-1.8	-
1425575_at	<i>Epha3</i>	Eph receptor A3	-1.9	-
1418601_at	<i>Aldh1a7</i>	aldehyde dehydrogenase family 1, subfamily A7	-1.9	-
1432517_a_at	<i>Nnmt</i>	nicotinamide N-methyltransferase	-1.9	-
1448213_at	<i>Anxa1</i>	annexin A1	-1.9	-
1424318_at	1110067D22RIK	RIKEN cDNA 1110067D22 gene	-1.9	-
1450739_at	<i>Tbl1xr1</i>	transducin (beta)-like 1X-linked receptor 1	-1.9	-
1425506_at	<i>Mylk</i>	myosin, light polypeptide kinase	-1.9	-
1421871_at	<i>Sh3bgrl</i>	SH3-binding domain glutamic acid-rich protein like	-1.9	-
1418745_at	<i>Omd</i>	osteomodulin	-1.9	-
1423331_a_at	<i>Pvrl3</i>	poliovirus receptor-related 3	-1.9	-
1422818_at	<i>Nedd9</i>	neural precursor cell expressed, developmentally down-regulated gene 9	-1.9	-
1417040_a_at	<i>Bok</i>	Bcl-2-related ovarian killer protein	-1.9	-
1419662_at	<i>Ogn</i>	osteoglycin	-1.9	-

1427345_a_at	<i>Sult1a1</i>	sulfotransferase family 1A, phenol-preferring, member 1	-1.9	-
1425505_at	<i>Mylk</i>	myosin, light polypeptide kinase	-1.9	-
1422631_at	<i>Ahr</i>	aryl-hydrocarbon receptor	-1.9	-
1420796_at	<i>Ahrr</i>	aryl-hydrocarbon receptor repressor	-2.0	-
1437885_at	D030029J20RIK	RIKEN cDNA D030029J20 gene	-2.0	-
1448747_at	<i>Fbxo32</i>	F-box protein 32	-2.0	-
1436736_x_at	D0H4S114	DNA segment, human D4S114	-2.0	-
1421365_at	<i>Fst</i>	follistatin	-2.0	-
1427735_a_at	<i>Acta1</i>	actin, alpha 1, skeletal muscle	-2.0	-
1451537_at	<i>Chi3l1</i>	chitinase 3-like 1	-2.0	-
1448228_at	<i>Lox</i>	lysyl oxidase	-2.0	-
1416121_at	<i>Lox</i>	lysyl oxidase	-2.0	-
1419466_at	<i>Nkd2</i>	naked cuticle 2 homolog (Drosophila)	-2.0	-
1424408_at	<i>Lims2</i>	LIM and senescent cell antigen like domains 2	-2.0	-
1430522_a_at	<i>Vamp5</i>	vesicle-associated membrane protein 5	-2.0	-
1424594_at	<i>Lgals7</i>	lectin, galactose binding, soluble 7	-2.0	-
1416039_x_at	<i>Cyr61</i>	cysteine rich protein 61	-2.0	-
1420371_at	<i>Sntb2</i>	syntrophin, basic 2	-2.0	-
1448594_at	<i>Wisp1</i>	WNT1 inducible signaling pathway protein 1	-2.0	-
1420372_at	<i>Sntb2</i>	syntrophin, basic 2	-2.1	-
1422245_a_at	<i>MRVII</i>	MRV integration site 1	-2.1	-
1438133_a_at	<i>Cyr61</i>	cysteine rich protein 61	-2.1	-
1421346_a_at	<i>Slc6a6</i>	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	-2.1	-
1449303_at	<i>Sesn3</i>	sestrin 3	-2.1	-
1420514_at	None		-2.1	-
1421645_at	9930013L23RIK	RIKEN cDNA 9930013L23 gene	-2.1	-
1426339_at	<i>Ak5</i>	adenylate kinase 5	-2.1	-
1422733_at	<i>Fjx1</i>	four jointed box 1 (Drosophila)	-2.1	-
1427677_a_at	<i>Sox6</i>	SRY-box containing gene 6	-2.1	-
1425296_a_at	<i>Rgs3</i>	regulator of G-protein signaling 3	-2.1	-
1417522_at	<i>Fbxo32</i>	F-box only protein 32	-2.1	-
1435162_at	<i>Prkg2</i>	Protein kinase, cGMP-dependent, type II	-2.2	-
1423025_a_at	<i>Schip1</i>	schwannomin interacting protein 1	-2.2	-
1436986_at	<i>Sntb2</i>	syntrophin, basic 2	-2.2	-
1452203_at	<i>Obfc2a</i>	oligonucleotide/oligosaccharide-binding fold containing 2A	-2.2	-

1449335_at	<i>Timp3</i>	tissue inhibitor of metalloproteinase 3	-2.2	-
1449840_at	<i>Sntb2</i>	syntrophin, basic 2	-2.2	-
1422642_at	<i>Cdc42ep3</i>	CDC42 effector protein (Rho GTPase binding) 3	-2.2	-
1417356_at	<i>Peg3</i>	paternally expressed 3	-2.2	-
1454984_at	<i>Lifr</i>	leukemia inhibitory factor receptor	-2.2	-
1449297_at	<i>Casp12</i>	caspase 12	-2.2	-
1419149_at	<i>Serpine1</i>	serine (or cysteine) proteinase inhibitor, clade E, member 1	-2.2	-
1417496_at	<i>Cp</i>	ceruloplasmin	-2.2	-
1423271_at	<i>Gjb2</i>	gap junction membrane channel protein beta 2	-2.2	-
1450839_at	D0H4S114	DNA segment, human D4S114	-2.3	-
1450922_a_at	<i>Tgfb2</i>	transforming growth factor, beta 2	-2.3	-
1434181_at	<i>Fermt2</i>	fermitin family homolog 2 (Drosophila)	-2.3	-
1454862_at	<i>Phldb2</i>	pleckstrin homology-like domain, family B, member 2	-2.3	-
1450537_at	<i>Mid2</i>	midline 2	-2.3	-
1449334_at	<i>Timp3</i>	tissue inhibitor of metalloproteinase 3	-2.3	-
1423250_a_at	<i>Tgfb2</i>	transforming growth factor, beta 2	-2.3	-
1456603_at	<i>Fam101b</i>	Family with sequence similarity 101, member B	-2.4	-
1418758_a_at	<i>Cyth3</i>	cytohesin 3	-2.4	-
1419088_at	<i>Timp3</i>	tissue inhibitor of metalloproteinase 3	-2.4	-
1417061_at	<i>Slc40a1</i>	solute carrier family 40 (iron-regulated transporter), member 1	-2.5	-
1460302_at	<i>Thbs1</i>	thrombospondin 1	-2.5	-
1419089_at	<i>Timp3</i>	tissue inhibitor of metalloproteinase 3	-2.5	-
1416156_at	<i>Vcl</i>	vinculin	-2.6	-
1429159_at	<i>Itih5</i>	inter-alpha (globulin) inhibitor H5	-2.6	-
1418981_at	<i>Casp12</i>	caspase 12	-2.6	-
1426806_at	<i>Obfc2a</i>	oligonucleotide/oligosaccharide-binding fold containing 2A	-2.6	-
1450923_at	<i>Tgfb2</i>	transforming growth factor, beta 2	-2.6	-
1424567_at	<i>Tspan2</i>	tetraspanin 2	-2.6	-
1449434_at	<i>Car3</i>	carbonic anhydrase 3	-2.7	-
1416953_at	<i>Ctgf</i>	connective tissue growth factor	-2.9	-
1449158_at	<i>Kcnk2</i>	potassium channel, subfamily K, member 2	-2.9	-
1450700_at	<i>Cdc42ep3</i>	CDC42 effector protein (Rho GTPase binding) 3	-3.0	-
1420715_a_at	<i>Pparg</i>	peroxisome proliferator activated receptor gamma	-3.0	-
1450377_at	<i>Thbs1</i>	thrombospondin 1	-3.1	-
1416157_at	<i>Vcl</i>	vinculin	-3.3	-

1427485_at	<i>Lmod1</i>	leiomodoin 1 (smooth muscle)	-3.5	-
1450988_at	<i>Lgr5</i>	leucine rich repeat containing G protein coupled receptor 5	-3.8	-
1419070_at	<i>Cys1</i>	cystin 1	-3.9	-
1418937_at	<i>Dio2</i>	deiodinase, iodothyronine, type II	5.6	3.5
1416034_at	<i>Cd24a</i>	CD24a antigen	5.4	4.2
1448182_a_at	<i>Cd24a</i>	CD24a antigen	5.2	4.1
1437502_x_at	<i>Cd24a</i>	CD24a antigen	5.2	3.7
1418697_at	<i>Inmt</i>	indolethylamine N-methyltransferase	5.2	1.9
1421227_at	<i>Gzme</i>	granzyme E	4.8	3.5
1448377_at	<i>Slpi</i>	secretory leukocyte protease inhibitor	4.5	2.8
1450970_at	<i>Got1</i>	glutamate oxaloacetate transaminase 1, soluble	4.4	1.7
1424127_at	<i>Eya2</i>	eyes absent 2 homolog (Drosophila)	3.9	2.8
1422473_at	<i>Pde4b</i>	phosphodiesterase 4B, cAMP specific	3.7	3.7
1426225_at	<i>Rbp4</i>	retinol binding protein 4, plasma	3.7	2.5
1418457_at	<i>Cxcl14</i>	chemokine (C-X-C motif) ligand 14	3.3	2.7
1450171_x_at	<i>Gzme</i>	granzyme E	3.3	2.4
1418456_a_at	<i>Cxcl14</i>	chemokine (C-X-C motif) ligand 14	3.1	2.1
1422474_at	<i>Pde4b</i>	phosphodiesterase 4B, cAMP specific	2.5	2.1
1420731_a_at	<i>Csrp2</i>	cysteine and glycine-rich protein 2	2.4	1.7
1417633_at	<i>Sod3</i>	superoxide dismutase 3, extracellular	2.3	2.1
1426937_at	6330406I15RIK	RIKEN cDNA 6330406I15 gene	2.3	1.6
1417634_at	<i>Sod3</i>	superoxide dismutase 3, extracellular	2.2	2.2
1451191_at	<i>Crabp2</i>	cellular retinoic acid binding protein II	2.2	1.8
1451716_at	<i>Mafb</i>	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	2.2	1.7
1416666_at	<i>Serpine2</i>	serine (or cysteine) proteinase inhibitor, clade E, member 2	2.1	1.7
1437401_at	<i>Igf1</i>	Insulin-like growth factor 1	2.0	1.9
1426640_s_at	<i>Trib2</i>	tribbles homolog 2 (Drosophila)	2.0	1.8
1428306_at	<i>Ddit4</i>	DNA-damage-inducible transcript 4	2.0	1.5
1419209_at	<i>CXCL1</i>	chemokine (C-X-C motif) ligand 1	1.9	2.4
1452244_at	6330406I15RIK	RIKEN cDNA 6330406I15 gene	1.9	1.6
1452014_a_at	<i>Igf1</i>	insulin-like growth factor 1	1.8	1.7
1415857_at	<i>Emb</i>	embigin	1.5	2.3
1415856_at	<i>Emb</i>	embigin	1.5	2.0
1448557_at	<i>Fam13c</i>	family with sequence similarity 13, member C	-1.7	-1.6

1451313_a_at	1110067D22RIK	RIKEN cDNA 1110067D22 gene	-1.8	-1.5
1455393_at	<i>Cp</i>	ceruloplasmin	-1.8	-2.6
1448673_at	<i>Pvrl3</i>	poliovirus receptor-related 3	-1.9	-1.5
1455893_at	<i>Rspo2</i>	R-spondin 2 homolog (Xenopus laevis)	-1.9	-1.7
1451344_at	<i>Tmem119</i>	Transmembrane protein 119	-1.9	-1.9
1417494_a_at	<i>Cp</i>	ceruloplasmin	-1.9	-2.3
1417495_x_at	<i>Cp</i>	ceruloplasmin	-1.9	-2.4
1455056_at	<i>Lmo7</i>	LIM domain only 7	-2.1	-1.8
1417923_at	<i>Pak3</i>	p21 (CDKN1A)-activated kinase 3	-2.5	-1.7
1449033_at	<i>Tnfrsf11b</i>	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	-2.5	-2.0
1425701_a_at	<i>Rgs3</i>	regulator of G-protein signaling 3	-2.6	-1.6
1419184_a_at	<i>Fhl2</i>	four and a half LIM domains 2	-3.7	-2.0
1418477_at	<i>Matn1</i>	matrilin 1, cartilage matrix protein 1	-	6.6
1422606_at	<i>C1qtnf3</i>	C1q and tumor necrosis factor related protein 3	-	4.4
1453924_a_at	<i>Ptgfr</i>	prostaglandin F receptor	-	3.9
1453089_at	3110079O15RIK	RIKEN cDNA 3110079O15 gene	-	3.8
1432032_a_at	<i>Artn</i>	artemin	-	3.3
1420349_at	<i>Ptgfr</i>	prostaglandin F receptor	-	3.3
1460187_at	<i>Sfrp1</i>	secreted frizzled-related sequence protein 1	-	2.7
1419376_at	<i>Fibin</i>	fin bud initiation factor homolog (zebrafish)	-	2.4
1416594_at	<i>Sfrp1</i>	secreted frizzled-related sequence protein 1	-	2.4
1448395_at	<i>Sfrp1</i>	secreted frizzled-related sequence protein 1	-	2.3
1427789_s_at	<i>Gnas</i>	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus	-	2.2
1423578_at	<i>Coll1a2</i>	procollagen, type XI, alpha 2	-	2.1
1460239_at	<i>Tspan13</i>	tetraspanin 13	-	2.1
1419905_s_at	<i>Hpgd</i>	hydroxyprostaglandin dehydrogenase 15 (NAD)	-	2.0
1421633_a_at	<i>Hapln1</i>	hyaluronan and proteoglycan link protein 1	-	1.9
1426641_at	<i>Trib2</i>	tribbles homolog 2 (Drosophila)	-	1.9
1419816_s_at	<i>Errfi1</i>	ERBB receptor feedback inhibitor 1	-	1.8
1460661_at	<i>Slpr3</i>	sphingosine-1-phosphate receptor 3	-	1.8
1420380_at	<i>Ccl2</i>	chemokine (C-C motif) ligand 2	-	1.7
1421228_at	<i>Ccl7</i>	chemokine (C-C motif) ligand 7	-	1.7
1448754_at	<i>Rbp1</i>	retinol binding protein 1, cellular	-	1.7
1423259_at	<i>Id4</i>	inhibitor of DNA binding 4	-	1.7

1421307_at	<i>Car13</i>	carbonic anhydrase 13	-	1.6
1453321_at	AU041480	fibronectin type III domain containing 1	-	1.6
1416371_at	<i>Apod</i>	apolipoprotein D	-	1.6
1428571_at	<i>Col9a1</i>	procollagen, type IX, alpha 1	-	1.6
1417401_at	<i>Rai14</i>	retinoic acid induced 14	-	1.5
1416129_at	<i>Errfi1</i>	ERBB receptor feedback inhibitor 1	-	1.5
1424130_a_at	<i>Ptrf</i>	polymerase I and transcript release factor	-	-1.5
1452913_at	<i>Pcp4l1</i>	Purkinje cell protein 4-like 1	-	-1.6
1424596_s_at	<i>Lmcd1</i>	LIM and cysteine-rich domains 1	-	-1.6
1456319_at	None		-	-1.7
1424007_at	<i>Gdf10</i>	growth differentiation factor 10	-	-1.7
1460197_a_at	<i>Steap4</i>	STEAP family member 4	-	-1.8
1418373_at	<i>Pgam2</i>	phosphoglycerate mutase 2	-	-1.9
1448735_at	<i>Cp</i>	ceruloplasmin	-	-2.1
1448734_at	<i>Cp</i>	ceruloplasmin	-	-2.5
1421425_a_at	<i>Rcan2</i>	regulator of calcineurin 2	-	-3.1
1424649_a_at	<i>Tspan8</i>	tetraspanin 8	-	-4.1

This table shows the genes that were regulated by i.PTH, c.PTH and both i.PTH and c.PTH treatments in WT osteoblasts. Fold changes represent significant differences in gene expression upon PTH treatments versus vehicle by microarray analysis.