

1 **Supplementary materials Table S1** KEGG pathways separately for *PTK2B* a
2 nd *PRKG2*.
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<i>PTK2B</i>
Calcium signaling pathway
Chemokine signaling pathway
GnRH signaling pathway
Hepatitis B
Human cytomegalovirus infection
Human immunodeficiency virus 1 infection
Leukocyte transendothelial migration
Natural killer cell mediated cytotoxicity
Phospholipase D signaling pathway
Yersinia infection

<i>PRKG2</i>
cGMP-PKG signaling pathway
Circadian entrainment
Gap junction
Long-term depression
Olfactory transduction
Platelet activation
Regulation of lipolysis in adipocytes
Renin secretion
Salivary secretion
Thermogenesis

Supplementary materials Table S2 Primers in this study.

Gene	Product	Forward primer (5'-3')	Reverse primer (5'-3')
<i>ACTB</i>	Actin beta	CGAGGACTTTGATTGCACATTG	AGAGAAGTGGGGTGGCTTTTAG
<i>ALPL</i>	Alkaline phosphatase, biomineralization associated	TTTCTCTTGGGCAGGCAG	GTTCCACGGAGGCTTCAG
<i>FABP4</i>	Fatty acid binding protein 4	GAGAGGATGATAAACTGGTGGT	GAATGTTGTAGAGTTCAATGCG
<i>PPARG</i>	Peroxisome proliferator activated receptor gamma	TGCAAGGGTTTCTTCCGG	ATCCCCACTGCAAGGCAT
<i>PRKG2</i>	Protein kinase cGMP-dependent 2	TGTGGCAAACCTGAACCG	GGTTCTGGAATGGGGATG
<i>PTK2B</i>	Protein tyrosine kinase 2 beta	TCAGGGGGAAGAAGCAGA	GGGGTTGGGGAGAGAAAG
<i>RUNX2</i>	RUNX family transcription factor 2	GGACCTGTGCTTCCTGCC	TACTTGGTATACGGCCTTTAGA