

Product datasheet for KN201538RB

OriGene Technologies, Inc.

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PPAR gamma (PPARG) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: PPAR gamma

Locus ID: 5468

Components: KN201538G1, PPAR gamma gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN201538G2, PPAR gamma gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN201538RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: NM 001330615, NM 005037, NM 015869, NM 138711, NM 138712, NM 001354666,

NM 001354667, NM 001354668, NM 001354669, NM 001354670

UniProt ID: P37231

Synonyms: CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARgamma

Summary: This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR)

subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been

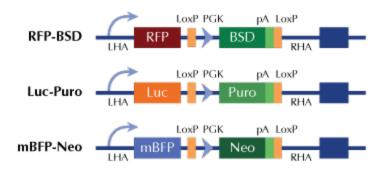
described. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter