

Product datasheet for KN206527RB

HCAR2 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: HCAR2 Locus ID: 338442

Components: KN206527G1, HCAR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN206527G2, HCAR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206527RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 177551</u>

UniProt ID: Q8TDS4

Synonyms: GPR109A; HCA2; HM74a; HM74b; NIACR1; Puma-g; PUMAG

Summary: Acts as a high affinity receptor for both nicotinic acid (also known as niacin) and (D)-beta-

hydroxybutyrate and mediates increased adiponectin secretion and decreased lipolysis through G(i)-protein-mediated inhibition of adenylyl cyclase. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet. Mediates nicotinic acid-induced apoptosis in mature neutrophils. Receptor activation by nicotinic acid results in reduced cAMP levels which may affect activity of cAMP-dependent protein kinase A and phosphorylation of target proteins, leading to neutrophil apoptosis. The rank order of potency for the displacement of nicotinic acid binding is 5-methyl pyrazole-3-carboxylic acid = pyridine-3-acetic acid > acifran > 5-methyl nicotinic acid = acipimox >>

nicotinuric acid = nicotinamide.[UniProtKB/Swiss-Prot Function]



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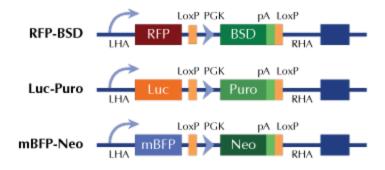
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Product images:

Donor Vector Edited Chromosome



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