

## Product datasheet for **KN206527BN**

### HCAR2 Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	HCAR2
Locus ID:	338442
Components:	<b>KN206527G1</b> , HCAR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN206527G2</b> , HCAR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN206527BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , 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\\_177551](#)

**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 >> nicotinic acid = nicotinamide.[UniProtKB/Swiss-Prot Function]



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## Product images:

