

## 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:	<p><b>KN206527G1</b>, HCAR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN206527G2</b>, HCAR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN206527RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<u><a href="#">NM_177551</a></u>
UniProt ID:	<u><a href="#">Q8TDS4</a></u>
Synonyms:	GPR109A; HCA2; HM74a; HM74b; NIACR1; Puma-g; PUMAG
Summary:	<p>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 &gt; acifran &gt; 5-methyl nicotinic acid = acipimox &gt;&gt; nicotinuric acid = nicotinamide.[UniProtKB/Swiss-Prot Function]</p>



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## Product images:

