

## Product datasheet for MC211930

### Hcar2 (NM\_030701) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hcar2 (NM_030701) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hcar2
Synonyms:	Gpr109a; Gpr109b; HM74; mHM74b; Niacr1; PUMA-G; Pumag
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211930 representing NM_030701 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAAGTCAGACATTTTCTAGTGATAAACGGCAAGAACTGCTGTGTGTTCCGAGATGAAAACATCG  
CCAAGGTCTTGCCACCGGTGTTGGGGCTGGAATTTGTGTTCCGACTCCTGGGCAATGGCCTTGCTTGTG  
GATTTTCTGTTTCCACCTCAAGTCCTGAAATCCAGCCGATTTTCTGTTCAACTGGCCGTGGCTGAC  
TTTCTCCTGATCATCTGCCTGCCGTTCTGACGGACAACATATGCCATAACTGGGACTGGAGTTCCGGAG  
GCATCCCTTGCCGTGTGATGCTTTCATGTTGGCTATGAACCGACAGGGCAGCATCATCTTCCTCACCGT  
GGTGGCTGTGGACCGCTACTTCCGGGTGGTCCATCCACACCACTTCTGAACAAGATCTCCAACCGGACG  
GCGGCCATCATTTCTTGCTTCTTGTTGGGTCTCACCATCGGCCTGACTGTCCACCTCCTCTATAAAACA  
TGATGACCAAAAAATGGCGAGGCATATCTGTGTAGCAGTTCAGCATCTGTTACAACCTCAGGTGGCAGCA  
TGCTATGTTTCTTGGAAATCTTCTTGCCCTGGCCATCATCTTGTCTGCTCAGGCAGGATCATCTGG  
AGCCTGAGGCAGAGACAGATGGACAGACATGCCAAGATCAAGAGGGCCATCAACTTCATCATGGTGGTGG  
CTATTGTATTTCATCATTGCTTCTACCCAGTGTGGCTGTGCGCATCCGCATCTTCTGGCTTCTCTACAA  
ATATAACGTACGCAACTGTGACATCTACTCCTCGGTGGACCTGGCTTTCTTTACCACCTTAGCTTTACC  
TACATGAACAGCATGCTGGACCCTGTGGTCTACTATTTTCCAGCCCATCTTTCCCAACTCTTTCTCCA  
CGTGATCAACCGCTGCCTTCGAAAGAAAACATTGGGTGAACCCGATAATAACCGAAGCACTAGTGTGGA  
GCTCACGGGGGACCCAGCACAACCAGAAGTATCCAGGGCGCTAATGGCTGACCCAGTGAGCCAGGC  
AGCCCCCTTATCTGGCTTCCACATCTCGTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul



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<b>ACCN:</b>	NM_030701
<b>Insert Size:</b>	1083 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">BC125296</a> , <a href="#">AAI25297</a>
<b>RefSeq Size:</b>	1315 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	80885
<b>UniProt ID:</b>	<a href="#">Q9EP66</a>
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	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. [UniProtKB/Swiss-Prot Function]