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Product datasheet for SC116358

HM74 (HCAR3) (NM_006018) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HM74 (HCAR3) (NM_006018) Human Untagged Clone
Tag:	Tag Free
Symbol:	HM74
Synonyms:	GPR109B; HCA3; HM74; Puma-g; PUMAG
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_006018 edited
GAATTCGGCACGAGACTTTGCTGGAGCATTCACTAGGCGAGGCGCTCCATCGGACTCACT
AGCCGCACTCATGAATCGGCACCATCTGCAGGATCACTTTCTGGAAATAGACAAGAAGAA
CTGCTGTGTGTTCCGAGATGACTTCATTGCCAAGGTGTTGCCGCCGGTGTTGGGGCTGGA
GTTTATCTTTGGGCTTCTGGGCAATGGCCTTGCCCTGTGGATTTTCTGTTTCCACCTCAA
GTCCTGGAAATCCAGCCGGATTTTCCTGTTCAACCTGGCAGTAGCTGACTTTCTACTGAT
CATCTGCCTGCCGTTCGTGATGGACTACTATGTGCGGCGTTCAGACTGGAAGTTTGGGGA
CATCCCTTGCCGGCTGGTGCTCTTCATGTTTGCCATGAACCGCCAGGGCAGCATCATCTT
CCTCACGGTGGTGGCGGTAGACAGGTATTTCCGGGTGGTCCATCCCCACCACGCCCTGAA
CAAGATCTCCAATTGGACAGCAGCCATCATCTCTTGCCTTCTGTGGGGCATCACTGTTGG
CCTAACAGTCCACCTCCTGAAGAAGAAGTTGCTGATCCAGAATGGCCCTGCAAATGTGTG
CATCAGCTTCAGCATCTGCCATACCTTCCGGTGGCACGAAGCTATGTTCCTCCTGGAGTT
CCTCCTGCCCCTGGGCATCATCCTGTTCTGCTCAGCCAGAATTATCTGGAGCCTGCGGCA
GAGACAAATGGACCGGCATGCCAAGATCAAGAGAGCCATCACCTTCATCATGGTGGTGGC
CATCGTCTTTGTCATCTGCTTCCTTCCCAGCGTGGTTGTGCGGATCCGCATCTTCTGGCT
CCTGCACACTTCGGGCACGCAGAATTGTGAAGTGTACCGCTCGGTGGACCTGGCGTTCTT
TATCACTCTCAGCTTCACCTACATGAACAGCATGCTGGACCCCGTGGTGTACTACTTCTC
CAGCCCATCCTTTCCCAACTTCTTCTCCACTTTGATCAACCGCTGCCTCCAGAGGAAGAT
GACAGGTGAGCCAGATAATAACCGCAGCACGAGCGTCGAGCTCACAGGGGACCCCAACAA
AACCAGAGGCGCTCCAGAGGCGTTAATGGCCAACTCCGGTGAGCCATGGAGCCCCTCTTA
TCTGGGCCCAACCTCAAATAACCATTCCAAGAAGGGACATTGTCACCAAGAACCAGCATC
TCTGGAGAAACAGTTGGGCTGTTGCATCGAGTAATGTCACTGGACTCGGCCTAAGGTTTC
CTGGAACTTCCAGATTCAGAGAATCTGATTTAGGGAAACTGTGGCAGATGAGTGGGAGAC
TGGTTGCAAGGTGTGACCGCAGGAATCCTGGAGGAACAGAGAGTAAAGCTTCTAGGCATC
TGAAACTTGCTTCATCTCTGACGCTCGCAGGACTGAAGATGGGCAAATTGTAGGCGTTTC
TGCTGAGCAGAGTTGGAGCCAGAGATCTACTTGTGACTTGTTGGCCTTCTTCCCACATCT
GCCTCAGACTGGGGGGGGCTCAGCTCCTCGGGTGATATCTAGCCTGCTTGTGAGCTCTAG
CAGGGATAAGGAGAGCTGAGATTGGAGGGAATTGTGTTGCTCCTGGAGGAAGCCCAGGCA
TCATTAAACAAGCCAGTAGGTCACCTGGCTTCCGTGGACCAATTCATCTTTCAGACAAGC
TTTAGCAGAAATGGACTCAGGGAAGAGACTCACATGCTTTGGTTAGTATCTGTGTTTCCG
GTGGGTGTAATAGGGGATTAGCCCCAGAAGGGACTGAGCTAAACAGTGTTATTATGGGAA
AGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATGCAATCCATTCCTCTCTTGTTTAT
AGTAATCTAAGGGTTGAGCAGTTAAAACGGCTTCAGGATAGAAAGCTGTTTCCCACCTGT
TTGCTTTTACCATTAAAAGGGAAACGTGCCTCTGCCCCACGGGTAGAGGGGTGCACGTTC
CTCCTGGTTCCTTCGCTTGTGTTTCTGTACTTACCAAAAATCTACCACTTCAATAAATTT
TGATAGGAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006018 unedited
GTTACATTTTCGTATACGACTCACTATAGGGCGGCCCGCGATTCGGCACGAGACTTTGCT
GGAGCATTCACTAGGCGAGGCGCTCCATCGGACTCACTAGCCGCACTCATGAATCGGCAC
CATCTGCAGGATCACTTTCTGGAAATAGACAAGAAGAACTGCTGTGTGTTCCGAGATGAC
TTCATTGCCAAGGTGTTGCCGCCGGTGTTGGGGCTGGAGTTTATCTTTGGGCTTCTGGGC
AATGGCCTTGCCCTGTGGATTTTCTGTTTCCACCTCAAGTCCTGGAAATCCAGCCGGATT
TTCCTGTTCAACCTGGCAGTAGCTGACTTTCTACTGATCATCTGCCTGCCGTTCGTGATG
GACTACTATGTGCGGCGTTCAGACTGGAAGTTTGGGGACATCCCTTGCCGGCTGGTGCTC
TTCATGTTTGCCATGAACCGCCAGGGCAGCATCATCTTCCTCACGGTGGTGGCGGTAGAC
AGGTATTTCCGGGTGGTCCATCCCCACCACGCCCTGAACAAGATCTCCAATTGGACAGCA
GCCATCATCTCTTGCCTTCTGTGGGGCATCACTGTTGGCCTAACAGTCCACCTCCTGAAG
AAGAAGTTGCTGATCCAGAATGGCCCTGCAAATGTGTGCATCAGCTTCAGCATCTGCCAT
ACCTTCCGGTGGCACGAAGCTATGTTCCTCCTGGAGTTCCTCCTGCCCCTGNGCATCATC
CTGTTCTGCTCAGCCAGAATTATCTGGAGCCTGCGGCAGAGACAAATGGACCGGCATGCC
CAGATCAAGAGAGCCATCACCTTCATCATGGTGGGTGGCATCGNCTTTGNCATCTGCCTT
CTCCCAGCGNNGNTGTGCGGATCCGCATCTTCTGGCTCCTGCACACTTNCGGCACCCANA
ATGNGAAGTGTACCGCCTCGTGGACCTGNNCGTCTTTATC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_006018 unedited
CCCCCCCCCATTAGTTGNACCGCGGCCGCATTCTANATCGAGTTTTTTTTTTTTTTTTT
TTCCTATCAAAATTATTGAAGTGGTAGATTTTTGGTAAGTACAGAAACACAAGCGAAGGA
ACCAGGAGGAACGTGCACCCCTCTACCCGTGGGGCAGAGGCACGTTTCCCTTTTAATGGT
AAAAGCAAACAGGTGGGAAACAGCTTTCTATCCTGAAGCCGTTTTAACTGCTCAACCCTT
AGATTACTATAAACAAGAGAGGAATGGATTGCATTAGTCGCTGGTTGAAAGCAGCAATGC
CATTTCCTTTCCCATAATAACACTGTTTAGCTCAGTCCCTTCTGGGGCTAATCCCCTATT
ACACCCACCGGAAACACAGATACTAACCAAAGCATGTGAGTCTCTTCCCTGAGTCCATTT
CTGCTAAAGCTTGTCTGAAAGATGAATTGGTCCACGGAAGCCAGGTGACCTACTGGCTTG
TTTAATGATGCCTGGGCTTCCTCCAGGAGCAACACAATTCCCTCCAATCTCAGCTCTCCT
TATCCCTGCTAGAGCTCACAAGCAGGCTAGATATCACCCGAGGAGCTGAGCCCCCCCCAG
TCTGAGGCAGATGTGGGAAGAAGGCCAACAAGTCACAAGTAGATCTCTGGCTCCAACTCT
GCTCAGCAGAAACGCCTACAATTTGCCCATCTTCAGTCCTGCGAGCGTCAGAGATGAAGC
AAGTTTCAGATGCCTAGAAGCTTTACTCTCTGTTCCTCCAGGATTCCTGCGGTCACACCT
TGCAACCAGTCTCCCACTCATCTGCCACAGTTTCCCTAAATCAGATTCTCTGAATCTGGN
AAGTCCAGGAAACCTTAGGCCGAGTCCAGTGACATTACTCGATGCACAGCCCAAT
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Restriction Sites: NotI-NotI

ACCN: NM_006018

Insert Size: 2300 bp

OTI Disclaimer: 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).

Components: 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).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_006018.1, NP_006009.1
RefSeq Size:	2051 bp
RefSeq ORF:	1164 bp
Locus ID:	8843
UniProt ID:	P49019
Cytogenetics:	12q24.31
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Receptor for 3-OH-octanoid acid mediates a negative feedback regulation of adipocyte lipolysis to counteract prolipolytic influences under conditions of physiological or pathological increases in beta-oxidation rates. Acts as a low affinity receptor for nicotinic acid. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet.[UniProtKB/Swiss-Prot Function]