

Product datasheet for **RG208523**

HM74 (HCAR3) (NM_006018) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HM74 (HCAR3) (NM_006018) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HM74
Synonyms: GPR109B; HCA3; HM74; Puma-g; PUMAG
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208523 representing NM_006018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATCGGCACCATCTGCAGGATCACTTTCTGGAAATAGACAAGAAGAACTGCTGTGTGTTCCGAGATG
 ACTTCATTGCCAAGGTGTGCCCGGTGTTGGGGCTGGAGTTTATCTTTGGGCTTCTGGCAATGGCCT
 TGCCCTGTGGATTTTCTGTTCCACCTCAAGTCTGGAAATCCAGCCGGATTTTCTGTTCACCTGGCA
 GTAGCTGACTTTCTACTGATCATCTGCCTGCCGTTTCGTGATGGACTACTATGTGCGCGTTCAGACTGGA
 ACTTTGGGACATCCCTTGCCGGCTGGTCTTTCATGTTTGCCATGAACCGCCAGGGCAGCATCATCTT
 CCTCACGGTGGTGGCGGTAGACAGGTATTTCCGGGTGGTCCATCCCACACGCCCTGAACAAGATCTCC
 AATTGGACAGCAGCCATCATCTTGCCTTCTGTGGGCATCACTGTTGGCCTAACAGTCCACCTCCTGA
 AGAAGAAGTTGCTGATCCAGAATGGCCCTGCAAAATGTGTGCATCAGTTTCCAGCATCTGCCATACCTCCG
 GTGGCAGGAAGCTATGTTCTCCTGGAGTTCCTCCTGCCCTGGGCATCATCCTGTTCTGCTCAGCCAGA
 ATTATCTGGAGCCTGCGGCAGAGACAAATGGACCGCATGCCAAGATCAAGAGAGCCATCACCTTCATCA
 TGGTGGTGGCCATCGTCTTTGTCATCTGCTTCTTCCAGCGTGGTGTGCGGATCCGCATCTTCTGGCT
 CCTGCACACTTCGGGCACGCAGAATTGTGAAGTGTACCGCTCGGTGGACCTGGCGTCTTTATCATCTC
 AGCTTACCTACATGAACAGCATGCTGGACCCGTTGGTGTACTACTTCTCCAGCCATCCTTTCCCAACT
 TCTTCTCCACTTTGATCAACCGCTGCCTCCAGAGGAAGATGACAGGTGAGCCAGATAATAACCGCAGCAC
 GAGCGTCGAGCTCACAGGGGACCCCAACAAAACAGAGGCGCTCCAGAGCGTTAATGGCCAACCTCCGGT
 GAGCCATGGAGCCCTCTTATCTGGGCCAACCTCAAATAACCATTCCAAGAAGGGACATTGTCACCAAG
 AACCGCATCTCTGGAGAAACAGTTGGGCTGTTGCATCGAG

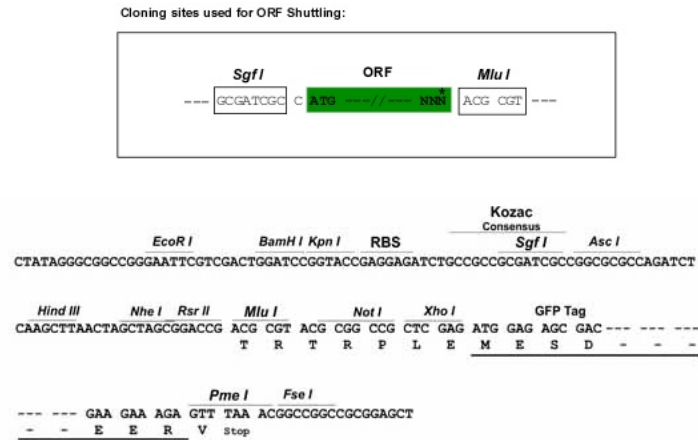
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_006018

ORF Size: 1161 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006018.1](#), [NP_006009.1](#)

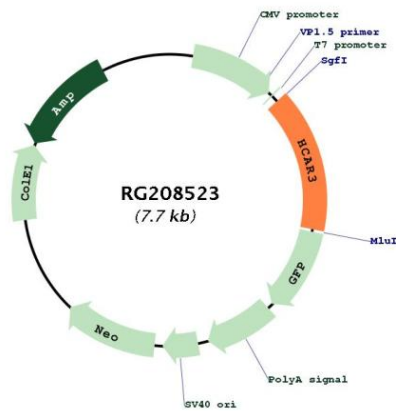
RefSeq Size: 2152 bp

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]

Product images:



Circular map for RG208523