

Product datasheet for RC204621

GPR84 (NM_020370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR84 (NM_020370) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR84
Synonyms:	EX33; GPCR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204621 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAACAGCTCTGACGCCAAGCTTCTCCTGCTACCATGAGTCTGTGCTGGGCTATCGTTATGTTGCAG
TTAGCTGGGGGTGGTGGTGGCTGTGACAGGCACCGTGGGCAATGTGCTCACCCCTACTGGCCTTGGCCAT
CCAGCCCAAGCTCCGTACCCGATTCAACCTGCTCATAGCCAACCTCACACTGGCTGATCTCCTCTACTGC
ACGCTCCTTCAGCCCTTCTCTGTGGACACCTACCTCCACCTGCACTGGCGCACCGGTGCCACCTTCTGCA
GGGTATTTGGGCTCCTCCTTTTTGCCTCCAATTCTGTCTCCATCCTGACCCTCTGCCTCATCGCACTGGG
ACGCTACCTCCTATTGCCACCCTAAGCTTTTTCCCAAGTTTTCAAGTCCAAGGGGATAGTGCTGGCA
CTGGTGAGCACCTGGGTTGTGGGCGTGGCCAGCTTTGCTCCCCTCTGGCCTATTTATATCCTGGTACCTG
TAGTCTGCACCTGCAGCTTTGACCGCATCCGAGGCCGGCCTTACACCACCATCCTCATGGGCATCTACTT
TGTGCTTGGGCTCAGCAGTGTGGCATCTTCTATTGCCTCATCCACCGCCAGGTCAAACGAGCAGCACAG
GCACTGGACCAATACAAGTTGCGACAGGCAAGCATCCACTCCAACCATGTGGCCAGGACTGATGAGGCCA
TGCCTGGTCGTTCCAGGAGCTGGACAGCAGGTTAGCATCAGGAGGACCCAGTGGGGGATTTTCATCTGA
GCCAGTCAGTGTGCCACCACCCAGACCCTGGAAGGGGACTCATCAGAAGTGGGAGACCAGATCAACAGC
AAGAGAGCTAAGCAGATGGCAGAGAAAAGCCCTCCAGAAGCATCTGCCAAAGCCAGCCAATTAAGGAG
CCAGAAGAGCTCCGATTCTTCATCGGAATTTGGGAAGGTGACTCGAATGTGTTTTGCTGTGTTCTCTG
CTTTGCCCTGAGCTACATCCCCTTCTTGTGCTCAACATTCTGGATGCCAGAGTCCAGGCTCCCCGGGTG
GTCCACATGCTTGTGCCAACCTCACCTGGCTCAATGGTTGCATCAACCTGTGCTCATGCAGCCATGA
ACCGCCAATTCGCCAAGCATATGGCTCCATTTAAAAAGAGGGCCCCGGAGTTTCCATAGGCTCCAT

ACGGTACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204621 protein sequence
Red=Cloning site Green=Tags(s)

MWNSSDANFSCYHESVLGYRYVAVSWGVVAVTGTVG NVL TLLALAIQPKLRTRFNLLIANLTLADLLYC
 TLLQPFVSDTYLHLHWRTGATFCRVFGLLLFASNSVSILTLCLIALGRYLLIAHPKLFQVFSAKGIVLA
 LVSTWVVGVASFAPLWPIYILVPVVCTCSFDRI RGRPYTILMGIYFVLGLSSVGIFYCL IHRQVKRAAQ
 ALDQYKLRQASIHNSHVARTDEAMPGRFQELDSRLASGGPSEGISSEPVSAATTQTLEGDSSEVGDQINS
 KRAKQMAEKSPPEASAKAQPIKGARRAPDSSSEFGKVTRMCFVFLCFALSYPFLLLNILDARVQAPRV
 VHMLAANLTLWNGCINPVL YAAMNRQFRQAYGSILKRGPRSFHRLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6177_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_020370

ORF Size: 1188 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.

RefSeq: [NM_020370.3](#)

RefSeq Size: 1525 bp

RefSeq ORF: 1191 bp

Locus ID: 53831

UniProt ID: [Q9NQ55](#)

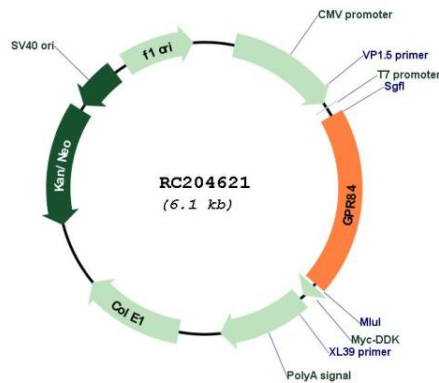
Cytogenetics: 12q13.13

Protein Families: Druggable Genome, GPCR, Transmembrane

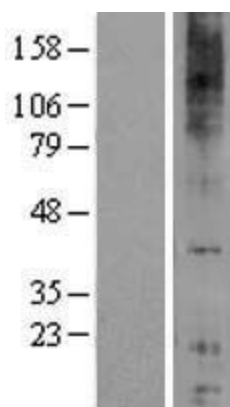
MW: 43.7 kDa

Gene Summary: Receptor for medium-chain free fatty acid (FFA) with carbon chain lengths of C9 to C14. Capric acid (C10:0), undecanoic acid (C11:0) and lauric acid (C12:0) are the most potent agonists. Not activated by short-chain and long-chain saturated and unsaturated FFAs. Activation by medium-chain free fatty acid is coupled to a pertussis toxin sensitive G(i/o) protein pathway. May have important roles in processes from fatty acid metabolism to regulation of the immune system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204621



Western blot validation of overexpression lysate (Cat# [LY402776]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204621 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).