

Product datasheet for **RG204621**

GPR84 (NM_020370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR84 (NM_020370) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR84
Synonyms:	EX33; GPCR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204621 representing NM_020370 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAACAGCTCTGACGCCAAGCTTCTCCTGCTACCATGAGTCTGTGCTGGGCTATCGTTATGTTGCAG
TTAGCTGGGGGTGGTGGTGGCTGTGACAGGCACCGTGGGCAATGTGCTCACCTACTGGCCTTGCCAT
CCAGCCCAAGCTCCGTACCCGATTCAACCTGCTCATAGCCAACCTCACACTGGCTGATCTCCTCTACTGC
ACGCTCCTCAGCCCTTCTGTGGACACCTACCTCCACCTGCACTGGCGCACCGGTGCCACCTTCTGCA
GGGATTTGGGCTCCTCCTTTTTGCCTCCAATTCTGTCTCCATCCTGACCCTCTGCCTCATCGCACTGGG
ACGCTACCTCCTATTGCCACCCTAAGCTTTTTCCCAAGTTTTCAAGTCCAAGGGGATAGTGCTGGCA
CTGGTGAGCACCTGGGTTGTGGCGTGGCCAGCTTTGCTCCCCTCTGGCCTATTTATATCCTGGTACCTG
TAGTCTGCACCTGCAGCTTTGACCGCATCCGAGGCCGGCCTTACACCACCATCCTCATGGGCATCTACTT
TGTGCTTGGGCTCAGCAGTGTGGCATCTTCTATTGCCTCATCCACCGCCAGGTCAAACGAGCAGCACAG
GCACTGGACCAATACAAGTTGCGACAGGCAAGCATCCACTCCAACCATGTGGCCAGGACTGATGAGGCCA
TGCTGGTCGTTCCAGGAGCTGGACAGCAGGTTAGCATCAGGAGGACCCAGTGGGGGATTTTCATCTGA
GCCAGTCAGTGTGCCACCACCCAGACCCTGGAAGGGGACTCATCAGAAGTGGGAGACCAGATCAACAGC
AAGAGAGCTAAGCAGATGGCAGAGAAAAGCCCTCCAGAAGCATCTGCCAAAGCCCAATTAAGGAG
CCAGAAGAGCTCCGATTCTTCATCGGAATTTGGGAAGGTGACTCGAATGTGTTTTGCTGTGTTCTCTG
CTTTGCCCTGAGCTACATCCCCTTCTTGTGCTCAACATTCTGGATGCCAGAGTCCAGGCTCCCCGGGTG
GTCCACATGCTTGTGCCAACCTCACCTGGCTCAATGGTTGCATCAACCTGTGCTCATGCAGCCATGA
ACCGCAATTCCGCCAAGCATATGGCTCCATTTAAAAAGAGGGCCCCGGAGTTTCCATAGGCTCCAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204621 representing NM_020370
Red=Cloning site Green=Tags(s)

MWNSSDANFSCYHESVLGYRYVAVSWGVVAVTGTVGNVLTLLALAIQPKLRTRFNLLIANLTLADLLYC
 TLLQPFVSDTYLHLHWRTGATFCRVFGLLLFASNSVSIILTLCLIALGRYLLIAHPKLFQVFSAKGIVLA
 LVSTWVVGVASFAPLWPIYILVPVVCTCSFDRI RGRPYTTILMGIYFVLGLSSVGIFYCLIHRQVKRAAQ
 ALDQYKLRQASIHNSHVARTDEAMPGRFQELDSRLASGGPSEGISSEPVSAATTQLEGDSEVGDQINS
 KRAKQMAEKSPPEASAKAQPIKARRAPDSSSEFGKVTVMCFVFLCFALSYPFLLLNILDARVQAPRV
 VHMLAANLTLWNGCINPVLVYAMNRQFRQAYGSILKRGPRSFHRLH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 1546 bp

RefSeq ORF: 1191 bp

Locus ID: 53831

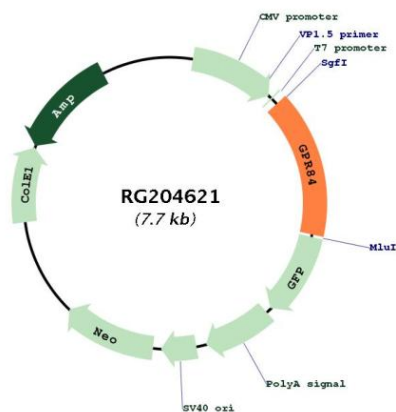
UniProt ID: [Q9NQS5](#)

Cytogenetics: 12q13.13

Protein Families: Druggable Genome, GPCR, Transmembrane

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 RG204621