

Product datasheet for **RG207164**

GPBAR1 (NM_001077191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPBAR1 (NM_001077191) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPBAR1
Synonyms:	BG37; GPCR19; GPR131; M-BAR; TGR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207164 representing NM_001077191. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGCCAACAGCACTGGCGAGGTGCCAGCCCCATCCCAAGGGGGCTTTGGGGCTCTCCCTGGCC
CTGGCAAGCCTCATCATACCGCGAACCTGCTCCTAGCCCTGGGCATCGCCTGGGACCGCCGCTGCGC
AGCCACCTGCTGGCTGCTTCTTCTGAGCCTACTGCTGGCTGGGCTGCTCACGGGTCTGGCATTGCC
ACATTGCCAGGGCTGTGGAACAGAGTCGCCGGGGTTACTGGTCTGCCTCCTCGTCTACTGGCTCCC
AACTTCTCCTTCTCCTGCTTGCCAACTCTTGTGGTGCACGGGGAGCGCTACATGCCAGTCTCTG
AGGCCACTCCAGCCCCCTGGGAGCATTGGCTGGCCCTGCTCCTCACCTGGGCTGGTCCCCTGCTCTTT
GCCAGTCTGCCCGCTCTTGGGTGGAACCTGGACCCCTGGTGCCAAGTGCAGCTCCAGGCTATCTTC
CCAGCCCCCTACCTGTACCTCGAAGTCTATGGGCTCCTGCTGCCCGCCGTGGGTGCTGCTGCCTTCTC
TCTGTCCGCGTGTGGCCACTGCCACCGCCAGCTGCAGGACATCTGCCGGCTGGAGCGGGCAGTGTGC
CGCGATGAGCCCTCCGCCCTGGCCCGGGCCCTTACCTGGAGGCAGGCAAGGGCACAGGCTGGAGCCATG
CTGCTCTTCGGGCTGTGCTGGGGCCCTACGTGGCCACTGCTCCTCTCAGTCTGGCCTATGAGCAG
CGCCCGCACTGGGGCTGGGACTGTGTCCCTCCTCCTCCTAGGAAGTGCAGTGCAGCGGCAGTG
CCCGTAGCCATGGGGCTGGGCGATCAGCGCTACACAGCCCCCTGGAGGGCAGCCGCCAAAGGTGCCTG
CAGGGGCTGTGGGAAGAGCCTCCGGGACAGTCCCGGCCAGCATTGCCTACCACCAAGCAGCCAA
AGCAGTGTGACCTGGACTTGAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG207164
 Blue=ORF Red=Cloning site Green=Tag(s)

MTPNSTGEVPSPIPKGALGLSLALASLIITANLLLALGIAWDRRLRSPAGCFFLSLLLAGLLTGLALP
 TLPGLWNQSRRGYWSCLLVYLAPNFSFLSLLANLLL VHGERYMAVLRPLQPPGSIRLALLL TWAGPLLF
 ASLPALGWNHWTPGANCCSQAI F P A P Y L Y L E V Y G L L L P A V G A A A F L S V R V L A T A H R Q L Q D I C R L E R A V C
 RDEPSALARAL TWRQARAQAGAMLLFGLCWGPYVATLLLSVLAYEQRPP L G P G T L L S L L S L G S A S A A A V
 P V A M G L G D Q R Y T A P W R A A A Q R C L Q G L W G R A S R D S P G P S I A Y H P S S Q S S V D L D L N
TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077191

ORF Size: 966 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 Size: 2023 bp

RefSeq ORF: 993 bp

Locus ID: 151306

UniProt ID: [Q8TDU6](#)

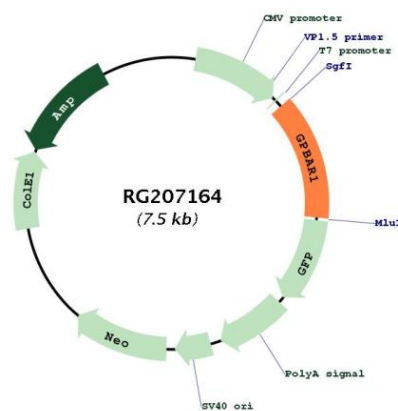
Cytogenetics: 2q35

Protein Families: Druggable Genome

MW: 35.2 kDa

Gene Summary: This gene encodes a member of the G protein-coupled receptor (GPCR) superfamily. This enzyme functions as a cell surface receptor for bile acids. Treatment of cells expressing this GPCR with bile acids induces the production of intracellular cAMP, activation of a MAP kinase signaling pathway, and internalization of the receptor. The receptor is implicated in the suppression of macrophage functions and regulation of energy homeostasis by bile acids. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207164