

Product datasheet for **RG224769**

GPBAR1 (NM_001077194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPBAR1 (NM_001077194) 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:	>RG224769 representing NM_001077194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCCAACAGCACTGGCGAGGTGCCAGCCCCATCCCAAGGGGGCTTTGGGGTCTCCCTGGCCC
TGGCAAGCCTCATCATCACCGGAACCTGCTCCTAGCCCTGGGCATCGCCTGGGACCGCCGCTGCGCAG
CCCACCTGCTGGCTGCTTCTTCTGAGCCTACTGCTGGCTGGGCTGCTCACGGGTCTGGCATTGCCACA
TTGCCAGGGCTGTGGAACCAGAGTCGCCGGGTTACTGGTCTGCCTCCTCGTCTACTTGGCTCCCACT
TCTCCTTCTCCTGCTTGGCAACCTCTTGCTGGTGCACGGGGAGCGCTACATGGCAGTCTGAGGCC
ACTCCAGCCCCCTGGGAGCATTGGCTGGCCCTGCTCCTCACCTGGGCTGGTCCCCTGCTCTTTGCCAGT
CTGCCCGCTTTGGGTGGAACCACTGGACCCCTGGTGCCAACTGCAGCTCCCAGGCTATCTTCCCAGCCC
CCTACCTGTACCTCGAAGTCTATGGGCTCCTGCTGCCCGCGTGGGTGCTGCTGCCTTCTCTGTCCG
CGTGTGGCCACTGCCACCGCCAGCTGCAGGACATCTGCCGGCTGGAGCGGGCAGTGTGCCCGATGAG
CCCTCCGCCCTGGCCCGGCCCTTACCTGGAGGCAGGCAAGGGCACAGGCTGGAGCCATGCTGCTTTCG
GGCTGTGCTGGGGGCCCTACGTGGCCACACTGCTCCTCTCAGTCTGGCCTATGAGCAGCGCCCGCCACT
GGGGCTGGGACACTGTTGTCCCTCCTCCTCCTAGGAAGTGCCAGTGCAGCGGCAGTGCCCGTAGCCATG
GGGCTGGGCGATCAGCGCTACACAGCCCCCTGGAGGGCAGCCGCCAAAGGTGCCAGGAGGGCTGTGGG
GAAGAGCCTCCCGGACAGTCCCGGCCCGCAGATTGCCTACCACCAAGCAGCCAAAGCAGTGTGACCT
GGACTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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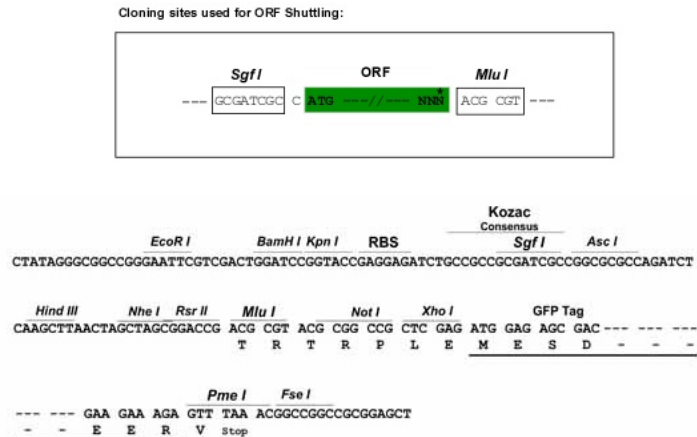
Protein Sequence: >RG224769 representing NM_001077194
Red=Cloning site Green=Tags(s)

MTPNSTGEVPSPIPKGALGLSLALASLIITANLLLALGIAWDRRLRSPAGCFFLSLLLAGLLTGLALPT
 LPGLWNQSRRGYWSCLLVYLAPNFSFLSLLANLLL VHGERYMAVLRPLQPPGSIRLALLL TWAGPLL FAS
 LPALGWNHWP GANCSSQAIFPAPYL YLEVYGLLL PAVGAAAF LSVRVLATAHRQLQD ICRLERAVCRDE
 PSALARAL TWRQARAQAGAMLL FGLCWGPYVATLLL SVLAYEQRPPLPGPTLLSLLSLGSA SAAAVPVAM
 GLGDQRYTAPWRAAAQRCLQGLWGRASRDSPGPSIAYHPSSQSSVDLDLN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077194

ORF Size: 990 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_001077194.1](#), [NP_001070662.1](#)

RefSeq Size: 1515 bp

RefSeq ORF: 993 bp

Locus ID: 151306

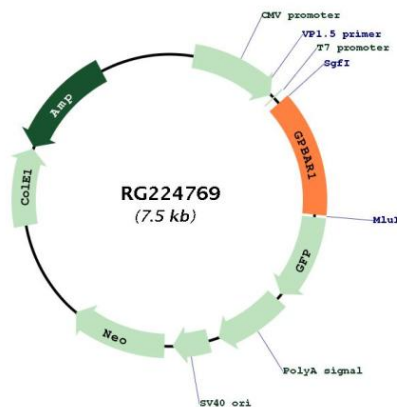
UniProt ID: [Q8TDU6](#)

Cytogenetics: 2q35

Protein Families: Druggable Genome

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 RG224769