

Product datasheet for **SC123312**

GPBAR1 (NM_170699) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPBAR1 (NM_170699) Human Untagged Clone
Tag: Tag Free
Symbol: GPBAR1
Synonyms: BG37; GPCR19; GPR131; M-BAR; TGR5
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001077194 edited
GCAGAGCCTGGGTAGGAGAGCCTGGCCCCGCTGTCCCCACTGGGTGGAGACACCATGCAC
TTGGTCCTTGTGCTCTTCAGCCAGGACACCAGACATGGTCCAAACCGCTGCAGGGCTGGC
TGCAGCAACTCCCTGACACTCAGGAAGGCCAGGCTGGGCAGGCAATACCTGCTCCCAAC
AGCCATGCATGCCGGCTGCCGCTCCAGGACTCCCCTGTCCCCAGGACCAAGATGACGCCC
AACAGCACTGGCGAGGTGCCAGCCCCATTCCCAAGGGGGCTTTGGGGCTCTCCCTGGCC
CTGGCAAGCCTCATCATCACCAGAACCTGCTCCTAGCCCTGGGCATCGCCTGGGACCGC
CGCCTGCGCAGCCACCTGCTGGCTGCTTCTCCTGAGCCTACTGCTGGCTGGGCTGCTC
ACGGGTCTGGCATTGCCACATTGCCAGGGCTGTGGAACCAGAGTCGCCGGGGTTACTGG
TCCTGCCTCCTCGTCTACTTGGCTCCCACTTCTCCTTCTCCTGCTTGCCAACTC
TTGCTGGTGCACGGGGAGCGCTACATGGCAGTCCTGAGGCCACTCCAGCCCCCTGGGAGC
ATTCGGCTGGCCCTGCTCCTCACCTGGGCTGGTCCCCTGCTCTTTGCCAGTCTGCCCGCT
CTGGGGTGGAACTGGACCCCTGGTGCCAACTGCAGCTCCCAGGCTATCTTCCAGCC
CCCTACCTGTACCTCGAAGTCTATGGGCTCCTGCTGCCCGCCGTGGGTGCTGCTGCCCTC
CTCTCTGTCCGCGTGGTGGCCACTGCCACCGCCAGCTGCAGGACATCTGCCGGCTGGAG
CGGGCAGTGTGCCGCGATGAGCCCTCCGCCCTGGCCCGGGCCCTTACCTGGAGGCAGGCA
AGGGCACAGGCTGGAGCCATGCTGCTCTCGGGCTGTGCTGGGGGCCCTACGTGGCCACA
CTGCTCCTCTCAGTCTTGGCCTATGAGCAGCGCCCGCCACTGGGGCTGGGACACTGTTG
TCCCTCCTCTCCCTAGGAAGTGCCAGTGCAGCGCAGTGCAGCCATGGGGCTGGGCTGGG
GATCAGCGCTACACAGCCCTGGAGGGCAGCCGCCAAAGGTGCCTGCAGGGGCTGTGG
GGAAGAGCCTCCCGGGACAGTCCCGGCCAGCATTGCCTACCACCAAGCAGCCAAAGC
AGTGTGACCTGGACTTGAATAAAGGAAGGGCCTCTGCTGACTCCTACCAGAGCATCCG
TCCAGCTCAGCCATCCAGCCTGTCTACTGGGCCCACTTCTCTGGATCAGAGACCCTG
CCTCTGTTTGACCCCGCACTGACTGAATAAAGCTCCTCTGGCCGTTAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_170699 unedited TATAGGGCGGCCGAGACTTCCCGGNTGCAGAGCCTGGTTAGGAGAGCCTGGCCCCGCTG TCCCCCTGGGTGGAGACACCATGCACTTGGTCCTTGTGCTCTTCAGCCAGGACACCAGAC ATGGTCCAAACCCTGCAGGGCTGGCTGCAGCAACTCCCTGACACTCAGGAAGGCCCAGG CTGGGCTGTTTATACCTGCTCCCAACAGCCATGCATGCCGGCTGCCGCTCCAGGACTCCC CTGTCCCAGGACCAAGATGACGCCAACAGCACTGGCGAGGTGCCAGCCCCATTCCCA AGGGGCTTTGGGGCTCTCCCTGGCCCTGGCAAGCCTCATCATCACCCGGAACCTGCTCC TAGCCCTGGGCATCGCCTGGGACCGCCCTGCGCAGCCACCTGCTGGCTGCTTCTTCC TGAGCCTACTGCTGGCTGGGCTGCTCACGGGTCTGGCATTGCCACATTGCCAGGCTGT GGAACCAGAGTCGCCGGGTTACTGGTCCTGCCTCCTCGTCTACTTGGCTCCCAACTTCT CCTTCTCTCCCTGCTTGCCAACCTCTTGTGGTGCACGGNGAGCGCTACATGGCAGTCC TGAGGCCACTCCAGCCCCTGGGAGCATTGGCTGGCCCTGCTCCTCACCTGGGCTGGTC CCCTGCTCTTGGCAGTCTGCCGCTCTGGGTGGAACCACTGGACCCCTGGTGAACACTG CAGCTCCAGCTATCTTCCAGCCCCTACCTGTACCTCGAAGTCTATGGGCTCCTGCTG CCCGCCGTGGGTGCTGCTGCCTTCTCTGTCCGCGTGTGGCCACTGCCACCGCCAG CTGAGGACATCTGCCGGCTGGAGCGGGCAGTGTGCCCGN
Restriction Sites:	Please inquire
ACCN:	NM_170699
Insert Size:	1400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_170699.1 , NP_733800.1
RefSeq Size:	1400 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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein.