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Product datasheet for RC207164

GPBAR1 (NM_001077191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPBAR1 (NM_001077191) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPBAR1
Synonyms:	BG37; GPCR19; GPR131; M-BAR; TGR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207164 representing NM_001077191.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGCCCAACAGCACTGGCGAGGTGCCCAGCCCCATTCCCAAGGGGGCTTTGGGGCTCTCCCTGGCC
CTGGCAAGCCTCATCATCACCGCGAACCTGCTCCTAGCCCTGGGCATCGCCTGGGACCGCCGCCTGCGC
AGCCCACCTGCTGGCTGCTTCTTCCTGAGCCTACTGCTGGCTGGGCTGCTCACGGGTCTGGCATTGCCC
ACATTGCCAGGGCTGTGGAACCAGAGTCGCCGGGGTTACTGGTCCTGCCTCCTCGTCTACTTGGCTCCC
AACTTCTCCTTCCTCTCCCTGCTTGCCAACCTCTTGCTGGTGCACGGGGAGCGCTACATGGCAGTCCTG
AGGCCACTCCAGCCCCCTGGGAGCATTCGGCTGGCCCTGCTCCTCACCTGGGCTGGTCCCCTGCTCTTT
GCCAGTCTGCCCGCTCTTGGGTGGAACCACTGGACCCCTGGTGCCAACTGCAGCTCCCAGGCTATCTTC
CCAGCCCCCTACCTGTACCTCGAAGTCTATGGGCTCCTGCTGCCCGCCGTGGGTGCTGCTGCCTTCCTC
TCTGTCCGCGTGCTGGCCACTGCCCACCGCCAGCTGCAGGACATCTGCCGGCTGGAGCGGGCAGTGTGC
CGCGATGAGCCCTCCGCCCTGGCCCGGGCCCTTACCTGGAGGCAGGCAAGGGCACAGGCTGGAGCCATG
CTGCTCTTCGGGCTGTGCTGGGGGCCCTACGTGGCCACACTGCTCCTCTCAGTCCTGGCCTATGAGCAG
CGCCCGCCACTGGGGCCTGGGACACTGTTGTCCCTCCTCTCCCTAGGAAGTGCCAGTGCAGCGGCAGTG
CCCGTAGCCATGGGGCTGGGCGATCAGCGCTACACAGCCCCCTGGAGGGCAGCCGCCCAAAGGTGCCTG
CAGGGGCTGTGGGGAAGAGCCTCCCGGGACAGTCCCGGCCCCAGCATTGCCTACCACCCAAGCAGCCAA
AGCAGTGTCGACCTGGACTTGAAC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Protein Sequence:

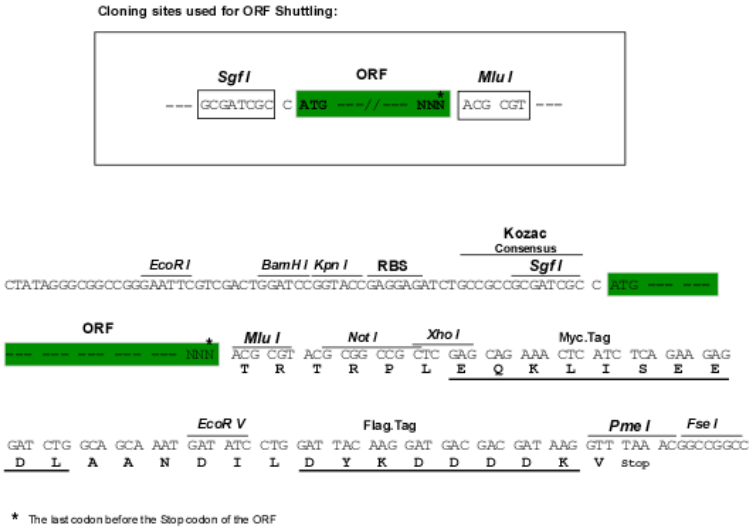
>Peptide sequence encoded by RC207164
Blue=ORF Red=Cloning site Green=Tag(s)

MTPNSTGEVPSPIPKGALGLSLALASLIITANLLLALGIAWDRRLRSPPAGCFFLSLLLAGLLTGLALP
TLPGLWNQSRRGYWSCLLVYLAPNFSFLSLLANLLLVHGERYMAVLRPLQPPGSIRLALLLTWAGPLLF
ASLPALGWNHWTPGANCSSQAIFPAPYLYLEVYGLLLPAVGAAAFLSVRVLATAHRQLQDICRLERAVC
RDEPSALARALTWRQARAQAGAMLLFGLCWGPYVATLLLSVLAYEQRPPLGPGTLLSLLSLGSASAAAV
PVAMGLGDQRYTAPWRAAAQRCLQGLWGRASRDSPGPSIAYHPSSQSSVDLDLN
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6334_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077191

ORF Size: 990 bp

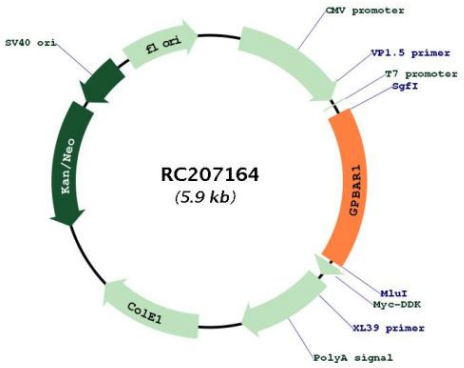
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

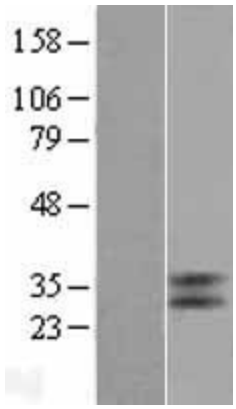
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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 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 RC207164



Western blot validation of overexpression lysate (Cat# [LY421375]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).