

Product datasheet for MR227683

Gpbar1 (NM_174985) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpbar1 (NM_174985) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpbar1
Synonyms:	BG37; GPCR; GPR131; M-BAR; TGR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227683 representing NM_174985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGACACCCAACAGCACTGAGCTGTCGGCCATCCCATGGGGTTCTGGGGCTTTCCTTGGCCCTGG
CAAGCCTCATCGTCATCGCCAACCTGCTCCTGGCCCTAGGCATCGCCCTGGACCGCCACTTGCAGCCCC
ACCTGCTGGCTGCTTCTCCTAAGCCTACTACTAGCCGGGCTGCTCACAGGGCTGGCACTGCCATGCTG
CCTGGGCTATGGAGCCGAACCATCAGGGCTACTGGTCTGCCTCCTTCTCCACTTGACCCCAACTTTT
GTTTCTTCCCTGCTTGCCAATCTGCTGCTGGTGCATGGGAACGCTACATGGCAGTGTTCAGCCACT
CCGGCCCCATGGAAGTGTGCGGCTAGCCCTGTTCTCACCTGGGTGAGTCCCTGTTCTTTGCCAGCCTG
CCTGCTCTGGGCTGGAACCATTTGAGCCCTGATGCCAACTGCAGCTCCCAAGCTGTCTTCCAGCCCCCT
ACCTCTACCTGGAAGTTTATGGCCTCCTGTTGCCTGCCGTGGGGGCCACTGCCCTTCTCTGTCCGCGT
GTTGGCCACTGCCACCGCCAGCTGTGTGAGATCCGCGACTGGAGCGGGCAGTGTGCCGCGATGTACCC
TCAACCTGGCTAGGGCTCTCACCTGGAGGCAGGCTAGGGCACAGGCAGGAGCCACACTGCTTCTTTCG
TGTGTTGGGGCCCTATGTGGCCACATTGCTCCTGTCAGTCTTGGCCTATGAGCGTCGCCACCAGTGGG
GCCTGGAACCTGTATTATCGCTCATCTCATTGGGCAGCACCAGTGTGCCGCTGTGCTGTGGCCATGGGG
CTGGGTGATCAGCGCTACACAGCCCCCTGGAGGACAGCTGCCAAAGGTGTCTACGAGTGCTTCGAGGAA
GAGCCAAGAGGGACAATCCAGGCCCCAGCACTGCCTACCACACCAAGTACCAATGCAGCATTGACCTGGA
CTTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227683 representing NM_174985
Red=Cloning site Green=Tags(s)

MMPNSTELSAIPMGVLGLSLALASLIVIANLLLALGIALDRHLRSPAGCFFLSLLLAGLLTGLALPML
 PGLWSRNHQGYWSCLLLHLTPNFCFLSLLANLLL VHGERYMAVLQPLRPHGSVRLALFLTWYSSLFFASL
 PALGWNHWSPDANCSSQAVFPAPYLYLEVYGLLLPAVGATALLSVRVLATAHRQLCEIRRLERAVCRDVP
 STLARAL TWRQARAQAGATLLFLLCWGPYVATLLL SVLAYERRPPLGPGTLLSLISLGSTSAAAVPVAMG
 LGDQRYTAPWR TAAQRCLRVLGRRAKRDNPGPSTAYHTSSQCSIDL DLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174985

ORF Size: 987 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_174985.1](#), [NP_778150.1](#)

RefSeq Size: 990 bp

RefSeq ORF: 990 bp

Locus ID: 227289

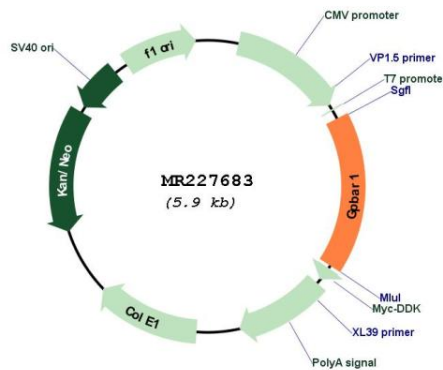
UniProt ID: [Q80SS6](#)

Cytogenetics: 1 38.53 cM

MW: 36.1 kDa

Gene Summary: Receptor for bile acid. Bile acid-binding induces its internalization, activation of extracellular signal-regulated kinase and intracellular cAMP production. May be involved in the suppression of macrophage functions by bile acids (By similarity). Involved in bile acid promoted GLP1R secretion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227683