

Product datasheet for **MG227683**

Gpbar1 (NM_174985) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpbar1 (NM_174985) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpbar1
Synonyms:	BG37; GPCR; GPR131; M-BAR; TGR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227683 representing NM_174985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGACACCCAACAGCACTGAGCTGTCGGCCATCCCATGGGGTTCTGGGGCTTTCCTTGGCCCTGG
CAAGCCTCATCGTCATCGCCAACCTGCTCCTGGCCCTAGGCATCGCCCTGGACCGCCACTTGCGCAGCCC
ACCTGCTGGCTGCTTCTCCTAAGCCTACTACTAGCCGGGCTGCTCACAGGGCTGGCACTGCCATGCTG
CCTGGGCTATGGAGCCGGAACCATCAGGGCTACTGGTCTGCCTCCTTCTCCACTTGACCCCACTTTT
GTTTCCTTCCCTGCTTGCCAATCTGCTGCTGGTGCATGGGAACGCTACATGGCAGTGTTCAGCCACT
CCGGCCCCATGGAAGTGTGCGGCTAGCCCTGTTCTCACCTGGGTCAGTCCCTGTTCTTTGCCAGCCTG
CCTGCTCTGGGCTGGAACCATTTGGAGCCCTGATGCCAACTGCAGCTCCCAAGCTGTCTTCCAGCCCTT
ACCTCTACCTGGAAGTTTATGGCCTCCTGTTGCCTGCCGTGGGGGCCACTGCCCTTCTCTGTCCGCGT
GTTGGCCACTGCCACCGCCAGCTGTGTGAGATCCGCCGACTGGAGCGGGCAGTGTGCCGCGATGTACCC
TCAACCCTGGCTAGGGCTCTCACCTGGAGGCAGGCTAGGGCACAGGCAGGAGCCACACTGCTTCTTTCG
TGTGTTGGGGCCCTATGTGGCCACATTGCTCCTGTCAGTCTTGGCCTATGAGCGTCGCCACCAGTGGG
GCCTGGAACCTCTGTTATCGCTCATCTCATTGGGCAGCACCAGTGTGCCGCTGTGCTGTGGCCATGGGG
CTGGGTGATCAGCGCTACACAGCCCCCTGGAGGACAGCTGCCAAAGGTGTCTACGAGTGCTTCGAGGAA
GAGCCAAGAGGGACAATCCAGGCCCCAGCACTGCCTACCACACCAAGTACCAATGCAGCATTGACCTGGA
CTTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG227683 representing NM_174985
 Red=Cloning site Green=Tags(s)

MMPNSTELSAIPMGVLGLSLALASLIVIANLLLALGIALDRHLRSPAGCFFLSLLLAGLLTGLALPML
 PGLWSRNHQGYWSCLLLHLTPNFCFLSLLANLLL VHGERYMAVLQPLRPHGSVRLALFLTWYSSLFFASL
 PALGWNHWSPDANCSSQAVFPAPYLYLEVYGLLLPAVGATALLSVRVLATAHRQLCEIRRLERAVCRDVP
 STLARAL TWRQARAQAGATLLFLLCWGPYVATLLL SVLAYERRPPLGPGTLLSLISLGSTSAAAVPVAMG
 LGDQRYTAPWR TAAQRCLRVLRGRAKRDNPGPSTAYHTSSQCSIDL DLN

TRTRPLE - GFP Tag - V

Restriction Sites:

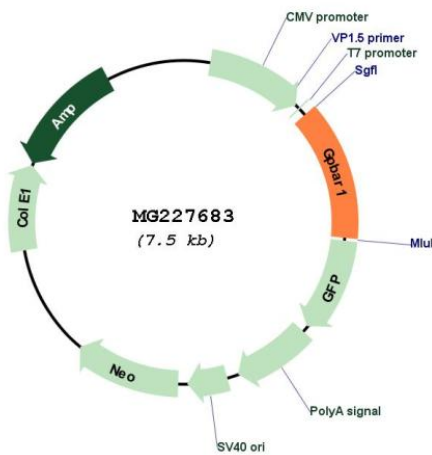
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_174985.1 , NP_778150.1
RefSeq Size:	990 bp
RefSeq ORF:	990 bp
Locus ID:	227289
UniProt ID:	Q80SS6
Cytogenetics:	1 38.53 cM
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]