

Product datasheet for **MG227185**

Gabrb1 (NM_008069) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gabrb1 (NM_008069) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gabrb1
Synonyms:	AW061132; B230208N19Rik; Gabrb-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227185 representing NM_008069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGACAGTACAAAATCGAGAGAGTTTGGGGCTTCTCTTTTTCCCGTGATGGTTGCTATGGTTTGT
 GTGCACACAGCTCCAATGAACCCAGCAACATGTACATACGTGAAAGAGACAGTGGACCGACTGCTCAAAGG
 ATATGACATTCGCTTGCAGCCGGACTTTGGAGGGCCCCGGTGGACGTCGGGATCGGGATCGGATGTCGCC
 AGCATAGACATGGTCTCGGAAGTGAATATGGATTATACACTCACCATGTATTTCCAGCAGTCTTGAAGG
 ACAAGAGGCTTTCATATTCTGGAATCCCATTAATCTGACCCCTTGACAACAGAGTAGCTGACCAACTCTG
 GGTACCAGACACCTACTTCTCAATGACAAGAAATCATTTGTGCATGGGGTACAGTGAACAAACCGAATG
 ATCAGGCTGCATCCTGATGGAAGTGTCTCTATGGACTACGGATCACAACCACTGCAGCATGCATGATGG
 ATCTTCGAAGATACCCTCTGGATGAGCAAACTGCACCCTGGAGATTGAAAGTTATGGCTATACCACGGA
 TGACATCGAATTTACTGGAATGGAGGAGGGGAGCAGTAAGTGGGGTCAATAAAATTGAGCTTCCCAA
 TTTTCAATTGTTGACTACAAGATGGTGTCCAAGAAGGTGGAGTTCACAACAGGGGCATATCCACGACTAT
 CACTAAGTTTTCGTCTAAAGAGAAACATTGGTTACTTCAATTTTGACAGCTACATGCCTTCCACACTGAT
 TACAATCTGTCTGGGTGTCGTTTTGGATCAACTATGATGCATCTGCAGCCAGAGTCGCACTAGGAATC
 ACTACGGTGTGACCATGACCACCATCAGCACTCACCTCAGGGAGACTTTGCCGAAGATCCCTTACGTC
 AAGCGATTGACATCTATCTATGGGCTGTTTTGTGTTTGTCTCTGGCTCTACTGGAATATGCTTTTGT
 CAATTACATTTTCTCGAAAAGGCCCTCAGAAAAGGGAGCGAGCAACAAGACCAGAGTGCCAATGAA
 AAGAACAGACTGGAGATGAACAAAGTCCAAGTTGATGCCACGGCAATATTCTCCTCAGCACCCCTGGAAA
 TCAGGAACGAGACCAGTGGCTCCGAGGTGCTCACAGGTGTAAGTGACCCCAAGGCCACCATGTACTCGTA
 CGACAGCGCCAGCATCCAGTACCGCAAGCCACTGAGCAGCCGCGAGGGCTTCGGGCGTGGGCTGGACAGG
 CACGGGGTACCGGCAAGGGGCGCATCCGACGGCGCCTCGCAGCTCAAAGTGAAGATCCCGACTTGA
 CTGACGTGAACCTCATAGACAAGTGGTCCCGAATGTTCTTCCCATCACCTTTTCTCTTTTAAATGTCGT
 TTATTGGCTTTACTATGTACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227185 representing NM_008069
 Red=Cloning site Green=Tags(s)

MWTVQNRESLGLLSFPVMVAMVCCAHSNPSNMSYVKETVDRLLKGYDIRLRPDFGGPPVDVGMRIDVA
 SIDMVSEVNMDYLTMYFQQSWKDKRLSYSGIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRM
 IRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWNGGEGAVTGVNKIELPQ
 FSIVDYKMSKKEFTTGAYPRLSLSFRLKRNIGYFILQTYMPSTLITILSWVSFWINYDASAARVALGI
 TTVLTMTTISTHLRETLPKIPYVKAIDIYLMGCFVFLALLEYAFVNYIFFGKGPQKKGASKQDQSANE
 KNRLEMNKVQVDAHGNILLSTLEIRNETSGSEVLTGVSDPKATMYSYDSASIQYRKPLSSREGFGRGLDR
 HGVPKGRIRRRASQLKVKIPDLTDVNSIDKWSRMFFPITFLFNVVYWLYYVH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008069

ORF Size: 1422 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

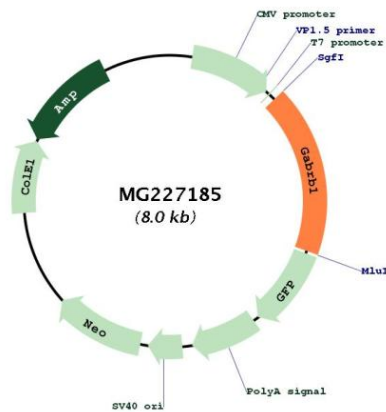
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008069.5](#)
 RefSeq Size: 1860 bp
 RefSeq ORF: 1425 bp
 Locus ID: 14400
 UniProt ID: [P50571](#)
 Cytogenetics: 5 38.18 cM

Gene Summary: Component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the vertebrate brain. Functions also as histamine receptor and mediates cellular responses to histamine (By similarity). Functions as receptor for diazepines and various anesthetics, such as pentobarbital; these are bound at a separate allosteric effector binding site. Functions as ligand-gated chloride channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227185