

Product datasheet for **MC216453**

Gabrb2 (NM_008070) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gabrb2 (NM_008070) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gabrb2
Synonyms:	A1834970; C030002O17Rik; C030021G16Rik; Gabrab2; Gabrb-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216453 representing NM_008070
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGAGAGTCCGGAAAAGGGCTACTTTGGGATTTGGTCATTTCCCTAATAATCGCCGCTGTCTGTG
 CTCAGAGTGTCAATGACCCTAGTAATATGTCGCTGGTTAAAGAGACGGTGACAGACTGTTGAAAGGCTA
 TGACATTCGTCCTGAGACCAGATTTTGGAGTCCCCTGTGGCCGTAGGAATGAACATTGATATTGCCAGC
 ATTGATATGGTTTCTGAGGTCAATATGGACTATACCTTGACCATGATTTTTCAGCAAGCCTGGAGAGACA
 AGAGGCTGTCTTACAATGTAATTCCTTTAACTTGACTTTGGACAACCGAGTGGCAGACCAACTCTGGGT
 GCCTGACACCTACTTCTGAATGATAAGAAGTCATTTGTACATGGAGTGACTGTCAAAAACCGTATGATT
 CGATTGCATCCCGATGGCACTGCCTGTATGGCCTCAGAATCACAACTACGGCTGCCTGCATGATGGACC
 TAAGGCGGTATCCACTGGATGAACAAAAGTGTACATTGGAGATTGAAAGCTATGGCTACACAAGTATGA
 CATTGAGTTTTACTGGCGCGCGATGACAATGCAGTACAGGAGTGACAAAGATTGAGCTTCTCCTCAGTTC
 TCCATCGTAGATTATAAACTCATCACCAAGAAAGTTGTTTTCTCCACAGGTTCTTATCCCAGATTGTCCC
 TAAGCTTTAACTGAAAAGGAACATTGGCTACTTCATCCTGCAGACATACATGCCATCAATTCTGATTAC
 CATTCTCTCCTGGGTCTCCTTTTGGATTAAGTATGATGCCTCTGCTGCACGGGTTGCATTAGGAATTACA
 ACTGTCCTAACATGACCACAATCAACACCCACCTCCGGGAACTCTCCCTAAAAATCCCCTATGTCAAAG
 CCATTGACATGTACCTAATGGGGTGCTTTGTCTTCGTCTTTATGGCCCTTCTGGAATACGCTTTGGTCAA
 CTACATCTTCTTTGGGAGAGGACCCAGCGCCAAAAGAAAGCAGCTGAGAAAGCTGCTAATGCCAACAT
 GAGAAGATGCGCCTGGATGTCAACAAGATGGACCCCATGAGAACATCTACTCAGCAGCCTTGAGATAA
 AAAACGAGATGGCCACATCCGAAGCAGTAATGGGACTTGGAGACCCAGGAGCACAACTGCTTGCCTATGA
 TGCTCCAGCATCCAGTATCGAAAAGCTGGGCTGCCTAGGCATAGTTTTGGCCGCAACGCTCTGGAGCGA
 CATGTGGCACAAGAAAAGTGCCTGAGGAGACGTGCCTCTCAACTGAAAATCACCATCCCGACTTGA
 CTGATGTGAATGCCATTGATCGGTGGTCCCGCATTTTCTCCCTGTGGTGTTCCTTCTTCAACATCGT
 CTATTGGCTTTATTATGTGA**ACTAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1989_f07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008070

Insert Size: 1425 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](#)

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:	BC145973 , AAI45974
RefSeq Size:	7568 bp
RefSeq ORF:	1425 bp
Locus ID:	14401
UniProt ID:	P63137
Cytogenetics:	11 25.08 cM
Gene Summary:	<p>Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:20400944). Plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel (PubMed:27129275). The gamma2 subunit is necessary but not sufficient for a rapid formation of active synaptic contacts and the synaptogenic effect of this subunit is influenced by the type of alpha and beta subunits present in the receptor pentamer (PubMed:27129275). The alpha1/beta2/gamma2 receptor and the alpha2/beta2/gamma2 receptor exhibit synaptogenic activity (PubMed:27129275). Functions also as histamine receptor and mediates cellular responses to histamine (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal in-frame segment and is shorter, compared to isoform 1.</p>