

## Product datasheet for **MC216456**

### **Gabrg2 (NM\_008073) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gabrg2 (NM_008073) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gabrg2
Synonyms:	GABAA-R; Gabrg-2; gamma2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC216456 representing NM\_008073  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTTCGCCAAATACATGGAGCATTGGAAGCTCAGTCTACTCTCTGTATTTTCACAGAAAATGACGC  
 TGTGGATTCTGCTCCTGCTATCGCTCTACCCAGGCTTCAACAAGCCAAAAGTCAGATGATGACTATGAAGA  
 TTACGCTTCTAATAAAACATGGGTGTTGACTCCAAAAGTTCCAGAGGGTATGTCACCTGTCTCTTAAAC  
 AACCTGCTGGAAGGGTATGACAACAACTTCGACCTGACATCGGAGTGAAACCAACATTAATTCATACAG  
 ATATGTATGTGAACAGCATTGGTCCAGTGAATGCATCAATATGGAATATAACAATTGATATTTTTTTGC  
 CCAAACCTGGTATGACAGACGTTTGAATTTAACAGTACCATAAAGTTCTCCGTTGAATAGCAATATG  
 GTGGGGAAAATCTGGATTCCAGACACTTCTTCAGGAACCTCAAAAAGGCTGATGCTCACTGGATCACCA  
 CTCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTCTCTACACCTTAAGGCTAACAAATTGATGC  
 TGAGTGCCAGTTGCAATTACACAACCTCCAATGGATGAACACTCTGCCCTGGAGTTCTCCAGTTAT  
 GGATATCCTCGTGAAGAAATGTTTATCAATGGAAGCGCAGTTCTGTTGAAGTGGGTGACACAAGATCAT  
 GGAGGCTGTATCAATTTTCTTTGTTGGATTGAGGAATACTGAAGTGTGAAGACAACCTTCTGGTGA  
 CTATGTGGTGATGCTGTGACTTCGATCTGAGCAGAAGAATGGGCTACTTCACCATCCAGACTTACATT  
 CCCTGCACACTCATCGTGGTCTGCTGGGTGTCCTTCTGGATCAATAAGGATGCTGTTCTGCCAGAA  
 CATCTTTAGGAATCACTACTGCTGACCATGACAACCTTAAGCACCATAGCCAGAAAATCTCTGCCAA  
 GGTCTCCTATGTCACAGCAATGGATCTCTTTGTATCTGTTTGCTCATCTTTGTGTTTCTGCTTTGGT  
 GAGTATGGCACCCTGCATTATTTGTGAGCAACCGGAAGCAAGGATAAAGACAAAAGAAGAAAA  
 ACCCTCTTCTCGGATGTTTTCTTCAAGGCCCTACCATTGATATTCGTCAGATCAACCAACATTCA  
 AATGAACAATGCCACACACCTTCAAGAGAGGGATGAAGAATATGGCTATGAGTGTGGATGGCAAGGAC  
 TGTGCCAGTTTCTCTGCTGTTTTGAAGATTGCCGAACAGGAGCCTGGAGACATGGGAGGATACATATTC  
 GCATTGCCAAAATGGACTCCTATGCTCGGATCTTCTCCCTACCGCCTTTGCTGTTCAATCTGTTTA  
 CTGGGTCTCTATCTTTATCTGTAA

**ACCGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_008073
- Insert Size:** 1425 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC031762](#), [AAH31762](#)

RefSeq Size: 2304 bp

RefSeq ORF: 1425 bp

Locus ID: 14406

UniProt ID: [P22723](#)

Cytogenetics: 11 24.8 cM

**Gene Summary:** This gene encodes a gamma-aminobutyric acid (GABA)-A receptor subunit, which is a member of the ligand-gated ion channel family. GABA is the major inhibitory neurotransmitter in the adult central nervous system, and conversely exhibits an excitatory function during development. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. This gene encodes one of three gamma subunits in mammals, which contain the binding site for benzodiazepine drugs. Several mutations in this gene are associated with epileptic seizures, and genetic knockdown is associated with anxiety behavior. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1, also known as gamma 2L). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.