

## Product datasheet for **SC333005**

### **GABRG3 (NM\_001270873) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GABRG3 (NM\_001270873) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GABRG3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333005 representing NM\_001270873.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGCCCCGAAGCTGCTGCTCCTCTGCCTGTTCTCGGGCTTGACGCGCGGTCCAGAAAGGTGGAA
GAGGATGAATATGAAGATTCATCATCAAACCAAAAGTGGGCTTTGGCTCCAAAATCCAAGACCCGAC
GTGACTCTTATTCTCAACAAGTTGCTAAGAGAATATGATAAAAAGCTGAGGCCAGATATTGGAATAAAA
CCGACCGTAATTGACGTTGACATTTATGTTAACAGCATTGGTCTGTGTCATCAATAAACATGGAATAC
CAAATTTGACATATTTTTTGCTCAGACCTGGACAGATAGTCGCCTTCGATTCAACAGCACAATGAAAATT
CTTACTCTGAACAGCAACATGGTGGGGTTAATCTGGATCCCAGACACCATCTTCCGCAATTCTAAAACC
GCAGAGGCTCACTGGATCACCACACCCAATCAGCTCCTCCGGATTGGAATGACGGGAAAAATCCTTTAC
ACTTTGAGGCTCACCATCAATGCTGAGTGCCAGCTGCAGCTGCACAACCTCCCATGGACGAACACTCC
TGCCCGCTGATTTTCTCCAGCTATGGCTATCCCAAAGAAGAAATGATTTATAGATGGAGAAAAAATTCA
GTGGAGGCAGCTGACCAGAAATCATGGCGGCTTTATCAGTTTGACTTCATGGGCCTCAGAAACACCACA
GAAATCGTGACAACGTCTGCAGGTAGGAATTTACTGAAAGAGGCACAGCTCTCAAAGCCAGAGAGGCC
TAA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001270873  
**Insert Size:** 762 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).



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**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\\_001270873.1](#)

**RefSeq Size:** 1512 bp

**RefSeq ORF:** 762 bp

**Locus ID:** 2567

**UniProt ID:** [Q99928](#)

**Cytogenetics:** 15q12

**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 29.4 kDa

**Gene Summary:** This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. The protein encoded by this gene is a gamma subunit, which contains the benzodiazepine binding site. Two transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Aug 2012]  
Transcript Variant: This variant (2) lacks several exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform 2 which is longer/shorter and has a distinct C-terminus, compared to isoform 1.