

## Product datasheet for **RC233556**

### **GABRG3 (NM\_001270873) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GABRG3 (NM_001270873) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABRG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233556 representing NM_001270873 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGAAGCTGCTGCTCCTCCTGCCTGTTCTCGGGCTTGACCGCGCGTCCAGAAAGGTGGAAG  
AGGATGAATATGAAGATTCATCATCAAACCAAAGTGGTCTTGGCTCCAAAATCCAAGACCCGACGT  
GACTCTTATTCTCAACAAGTTGCTAAGAGAATATGATAAAAAGCTGAGGCCAGATATTGGAATAAAACCG  
ACCGTAATTGACGTTGACATTTATGTTAACAGCATTGGTCCTGTGTCATCAATAAACATGGAATACCAA  
TTGACATATTTTTGCTCAGACCTGGACAGATAGTCGCCTTCGATTCAACAGCACAATGAAAATTTTAC  
TCTGAACAGCAACATGGTGGGTTAATCTGGATCCCAGACACCATCTCCGCAATTCTAAAACCGCAGAG  
GCTCACTGGATACCACACCCAATCAGCTCCTCCGGATTTGGAATGACGGGAAAAATCCTTTACACTTTGA  
GGCTCACCATCAATGCTGAGTGCCAGCTGCAGCTGCACAACCTCCCATGGACGAACACTCCTGCCCGCT  
GATTTTCTCCAGCTATGGCTATCCCAAAGAAGAAATGATTTATAGATGGAGAAAAAATTCAGTGGAGGCA  
GCTGACCAGAAATCATGGCGGCTTTATCAGTTTGACTTCATGGGCCTCAGAAACACCACAGAAATCGTGA  
CAACGTCTGCAGGTAGGAATTTACTGAAAGAGGCACAGCTCTCAAAGCCAGAGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233556 representing NM\_001270873  
Red=Cloning site Green=Tags(s)

MAPKLLLLLCLFSGLHARSRKVEEDEYEDSSSNQKWLAPKSQDQDVTLLLNKLLREYDKKLRPDIGIKP  
 TVIDVDIYVNSIGPVSSINMEYQIDIFFAQTWDSRLRFNSTMKILTLNSNMVGLIWIPDTIFRNSKTAE  
 AHWITTPNQLLRIWNDGKILYLRLTINAECQLQLHNFPMDEHSCPLIFSSYGYPKEEMIYRWRKNSVEA  
 ADQKSWRLYQDFMGLRNTTEIVTTSAGRNLKKAQLSKAREA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270873

**ORF Size:** 759 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:**

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\\_001270873.2](#)

**RefSeq Size:** 1512 bp

**RefSeq ORF:** 762 bp

**Locus ID:** 2567

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

**Cytogenetics:** 15q12

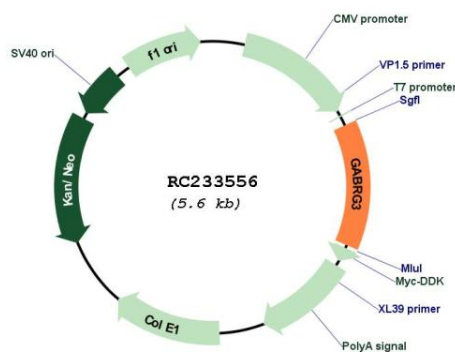
**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

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

**MW:** 29.9 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]

### Product images:



Circular map for RC233556