

## Product datasheet for **RG211528**

### **GABA A Receptor gamma 2 (GABRG2) (NM\_000816) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor gamma 2 (GABRG2) (NM_000816) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABA A Receptor gamma 2
Synonyms:	CAE2; DEE74; ECA2; EIEE74; FEB8; GEFSP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211528 representing NM\_000816  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTTCGCCAAATATATGGAGCACAGGAAGCTCAGTCTACTCGACTCCTGTATTTTCACAGAAAATGA  
 CGGTGTGGATTCTGCTCCTGCTGTCTGCTCTACCCTGGCTTCACTAGCCAGAAATCTGATGATGACTATGA  
 AGATTATGCTTCTAACAAAACATGGGTCTTGACTCCAAAAGTTCCTGAGGGTGATGTCACGTGCATCTTA  
 AACAACTGCTGGAAGGATATGACAATAAACTTCGGCCTGATATAGGAGTGAAGCCAACGTTAATTCACA  
 CAGACATGTATGTGAATAGCATTGGTCCAGTGAACGCTATCAATATGGAATACACTATTGATATATTTTT  
 TGCGCAAACGTGGTATGACAGACGTTTGAATTTAACAGCACCATTAAAGTCTCCGATTGAACAGCAAC  
 ATGGTGGGAAAACTGGATTCCAGACACTTTCTCAGAAATCCAAAAAGCTGATGCACACTGGATCA  
 CCACCCCAACAGGATGCTGAGAATTTGGAATGATGGTCGAGTGTCTACACCCTAAGGTTGACAATTGA  
 TGCTGAGTGCCAATTACAATTGCACAACTTCCAATGGATGAACACTCCTGCCCTTGGAGTTCTCCAGT  
 TATGGCTATCCACGTGAAGAAATGTTTATCAATGGAAGCGAAGTCTGTGGAAGTGGGCGACACAAGAT  
 CCTGGAGGCTTTATCAATTCTCATTGTTGGTCTAAGAAATACCACCGAAGTAGTGAAGCAACTTCCGG  
 AGATTATGTGGTCATGTCTGTCTACTTTGATCTGAGCAGAAGAATGGGATACTTTACCATCCAGACCTAT  
 ATCCCCTGCACACTCATTGTCTGCTCTACCTGGGTGTCTTTCTGGATCAATAAGGATGCTGTTCCAGCCA  
 GAACATCTTTAGGTATCACCCTGTCTGACAATGACCACCCTCAGCACCATTGCCCGGAAATCGCTCCC  
 CAAGGTCTCTATGTACAGCGATGGATCTCTTTGTATCTGTTTGTTCATCTTTGTCTTCTGCTCTG  
 GTGGAGTATGGCACCTTGCAATATTTGTACAGCAACCGAAACCAAGCAAGGACAAGATAAAAAAGAAGA  
 AAAACCTGCCCTACCATTGATATCCGCCCAAGATCAGCAACCATTCAAATGAATAATGCTACACACT  
 TCAAGAGAGAGATGAAGAGTACGGCTATGAGTGTCTGGACGGCAAGGACTGTGCCAGTTTTTCTGCTGT  
 TTTGAAGATTGTGAACAGGAGCTTGGAGACATGGGAGGATACATATCCGCATTGCCAAAATGGACTCCT  
 ATGCTCGGATCTTCTCCCACTGCCTTCTGCCTGTTAATCTGGTCTATTGGGTCTCTACCTCTACCT  
 G

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211528 representing NM\_000816  
 Red=Cloning site Green=Tags(s)

MSSPNIWSTGSSVYSTPVFSQKMTVWLLLLSLYPGFTSQKSDDDYEDYASNKTWVWLPKVPEDVTVIL  
 NNLEGEYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINMEYIDIFFAQTWYDRRLKFNSTIKVLRRLNSN  
 MVGKIWIWPDFFRNSKKADAHWITTPNMLRIWNDGRVLYTLRLTIDAECQLQLHNFPMDEHSCPLEFSS  
 YGYPREEIVYQWKRSSVEVGDTRSWRLYQFSFVGLRNTTEVVKTTSGDYVVMVSVYFDLRRRMGYFTIQTY  
 IPCTLIIVVLSWVSFWINKDAVPARTSLGITTVLMTTLSTIARKSLPKVSYVTAMDLFVSVCFIFVFSAL  
 VEYGTLYHYFVSNRKPDKDKKKKNPAPTIDIRPRSATIQMNNATHLQERDEEYGYECLDGKDCASFFCC  
 FEDCRTGAWRHGRIHIRIAKMDSYARIFFPATFCLFNLVYVWSYLYL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000816

**ORF Size:** 1401 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\\_000816.3](#)

**RefSeq Size:** 2370 bp

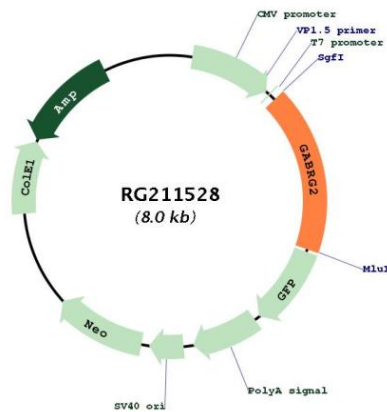
**RefSeq ORF:** 1404 bp

**Locus ID:** 2566

**UniProt ID:** [P18507](#)

**Cytogenetics:** 5q34  
**Domains:** Neur\_chan\_memb, Neur\_chan\_LBD  
**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane  
**Protein Pathways:** Neuroactive ligand-receptor interaction  
**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. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene have been associated with epilepsy and febrile seizures. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG211528