

Product datasheet for **RG217506**

GABRR1 (NM_002042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRR1 (NM_002042) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABRR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG217506 representing NM_002042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGATTTGGCATCTTTCTTTTGTGGTGGGGATGGGTTTTGGCCACTGAAAGCAGAATGCACTGGCCCC
 GAAGAGAAGTCCACGAGATGTCTAAGAAAAGGCAGTAGGCCCAAAGACAAAGACGAGAAGTACATGAAGA
 TGCCACAAAGCAAGTCAAGCCCAATTCTGAGACGAAGTCTGACATCACCAAAATCGCCTCTGACAAAGTCA
 GAACAGCTTCTGAGGATAGATGACCATGATTTTCAAGCAGAGGCTGGCTTTGGAGGCCCTGCCATTCCTG
 TTGGTGTGGATGTGCAGGTGGAGAGTTTGGATAGCATCTCAGAGGTTGACATGGACTTTACGATGACCTT
 CTACCTGAGGCACTACTGGAAGGACGAGAGGCTGTCTTTTCCAAGCACCAACAACCTCAGCATGACGTTT
 GATGGCCGGCTGGTCAAGAAGATCTGGGTCCCTGACATGTTTTTCGTGCACTCCAACGCTCCTTCATCC
 ACGACACCACCACAGACAACGTCATGTTGCGGGTCCAGCCTGATGGGAAAGTGTCTATAGTCTCAGGGT
 TACAGTAACTGCAATGTGCAACATGGACTTCAGCCGATTTCCCTTGACACACAAACGTGCTCTCTTGAA
 ATTGAAAGCTATGCCTATACAGAAGATGACCTCATGCTGTACTGGAAAAAGGGCAATGACTCCTTAAAGA
 CAGATGAACGGATCTCACTCTCCAGTTCTCATTGAGGAATTCACACCACCACAAACTGGCTTTCTA
 CAGCAGCACAGGCTGGTACAACCGTCTCTACATTAATTTACGTTGCGTCGCCACATCTTCTTCTTTG
 CTCCAAACTTATTTCCCGCTACCTGATGGTCATGCTGTCTGGGTGTCCTTCTGGATCGACCGCAGAG
 CCGTGCCTGCCAGAGTCCCCTTAGGTATCAACAACGGTGTGACCATGTCCACCATCATCACGGGCGTGAA
 TGCCCTCCATGCCGCGCTCTCTACATCAAGGCCGTGGACATCTACCTCTGGGTGAGCTTTGTGTTCTGT
 TTCTCTCGGTGCTGGAGTATGCGGCCGTCAACTACCTGACCACTGTGCAGGAGAGGAAGGAACAGAAGC
 TGCGGGAGAAGTCCCTGCACCAGCGGATTACCTCCGCCCGCACTGCAATGCTGGACGGCAACTACAG
 TGATGGGAGGTTGAATGACCTGGACAACACTACATGCCAGAGAATGGAGAGAAGCCCGACAGGATGATGGTG
 CAGCTGACCTGGCTCAGAGAGGAGCTCCCCACAGAGGAAAAGTCAAGAGAAGCAGCTATGTGAGCATGA
 GAATCGACACCCACGCCATTGATAAATACTCCAGGATCATCTTCCAGCAGCATACATTTTATTCAATTT
 AATATACTGGTCTATTTTCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217506 representing NM_002042
 Red=Cloning site Green=Tags(s)

MRFGIFLLWGWVLATESRMHWPGRVHEMSKKSRRPQRQRREVHEDAHKQVSPILRRSPDITKSPLTKS
 EQLLRIDDDHDFSMRPGFGGPAIPVGVQVQVESLDSISEVDMDFMTLYLRHYWKDERLSFPSTNNLSMTF
 DGRLVKKIWPDMFFVHRSKRSFIHDTTDDNMLRVQPDGKVLVSLRVTVTAMCNMDFSRFPLDTQCSLE
 IESYAYTEDDLMLYWKGNDSLKTDERISLSQFLIQEFHTTTKLAFYSSTGWYNRLYINFTLRRHIFFFL
 LQTYFPATLMVMLSWVSFVIDRRAVPAVPLGITTVLTMSTIITGVNASMPRVSYIKAVDIYLWVSFVVF
 FLSVLEYAAVNYLTTVQERKEQLREKLPCSTGLPPPRTAML DGNYS DGEVNDLDNYMPENGEKPD RMMV
 QLTLASERSSPQRKSQRSSVSMRIDTHAIDKYSRIIFPAAYILFNLIYWSIFS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002042

ORF Size: 1422 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_002042.2](#), [NP_002033.1](#)

RefSeq Size: 1976 bp

RefSeq ORF: 1440 bp

Locus ID: 2569

UniProt ID: [P24046](#)

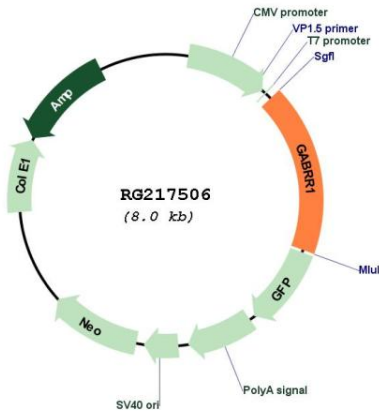
Cytogenetics: 6q15

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

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA receptors, which are ligand-gated chloride channels. GABRR1 is a member of the rho subunit family. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG217506