

Product datasheet for **RC217506**

GABRR1 (NM_002042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRR1 (NM_002042) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABRR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217506 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGATTTGGCATCTTTCTTTTGTGGTGGGGATGGGTTTTGGCCACTGAAAGCAGAATGCACTGGCCCC
 GAAGAGAAGTCCACGAGATGTCTAAGAAAGGCAGTAGGCCCAAAGACAAAGACGAGAAGTACATGAAGA
 TGCCACAAAGCAAGTCAGCCCAATTCTGAGACGAAGTCCTGACATCACCAAATCGCCTCTGACAAAGTCA
 GAACAGCTTCTGAGGATAGATGACCATGATTTTCAGCATGAGGCCTGGCTTTGGAGGCCCTGCCATTCCTG
 TTGGTGTGGATGTGCAGGTGGAGAGTTTGGATAGCATCTCAGAGGTTGACATGGACTTTACGATGACCTT
 CTACCTGAGGCACTACTGGAAGGACGAGAGGCTGTCTTTTCCAAGCACCAACAACCTCAGCATGACGTTT
 GATGGCCGGCTGGTCAAGAAGATCTGGGTCCCTGACATGTTTTTCGTGCACTCCAACGCTCCTTCATCC
 ACGACACCACCACAGACAACGTCATGTTGCGGGTCCAGCCTGATGGGAAAGTGCTCTATAGTCTCAGGGT
 TACAGTAACTGCAATGTGCAACATGGACTTCAGCCGATTTCCCTTGACACACAAACGTGCTCTCTTGAA
 ATTGAAAGCTATGCCTATACAGAAGATGACCTCATGCTGTACTGGAAAAAGGGCAATGACTCCTTAAAGA
 CAGATGAACGGATCTCACTCTCCAGTTCCTCATTGAGGAATTCACACCACCACAAACTGGCTTTCTA
 CAGCAGCACAGGCTGGTACAACCGTCTCTACATTAATTTACGTTGCGTCGCCACATCTTCTTCTTTG
 CTCCAACTTATTTCCCGCTACCTGATGGTCATGCTGTCTGGGTGTCCTTCTGGATCGACCGCAGAG
 CCGTGCCTGCCAGAGTCCCCTTAGGTATCACACGGTGTGACCATGTCCACCATCATCACGGGCGTGAA
 TGCCCTCATGCCGCGCTCTCTACATCAAGGCCGTGGACATCTACCTCTGGGTGAGCTTTGTGTTGCGT
 TTCCTCTCGGTGCTGGAGTATGCGGCCGTCAACTACCTGACCAGTGTGCAGGAGAGGAAGGAACAGAAGC
 TCGGGGAGAAGTCCCTGCACCAGCGGATTACCTCCGCCCGCACTGCAATGCTGGACGGCAACTAGCG
 TGATGGGAGGTTGAATGACCTGGACAACACTACATGCCAGAGAATGGAGAGAAGCCCGACAGGATGATGGT
 CAGCTGACCCTGGCTCAGAGAGGAGCTCCCCACAGAGAAAAGTCAGAGAAGCAGCTATGTGAGCATGA
 GAATCGACACCCACGCCATTGATAAATACTCCAGGATCATCTTCCAGCAGCATACATTTTATTCAATTT
 AATATACTGGTCTATTTTCTCC

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217506 protein sequence
 Red=Cloning site Green=Tags(s)

MRFGIFLLWGWVLATESRMHWPGRVHEMSKKSQRPQRREVHEDAHKQVSPILRRSPDITKSPLTKS
 EQLLRIDDDHDFSMRPGFGGPAIPVGVQVQVESLDSISEVDMDFMTLYLRHYWKDERLSFPSTNNLSMTF
 DGRLVKKIWPDMFFVHSKRSFIHDTTDDNMLRVQPDGKVLVSLRVTVTAMCNMDFSRFPLDTQCSLE
 IESYAYTEDDLMLYWKGNDSLKTDERISLSQFLIQEFHTTKLAFYSSTGWYNRLYINFTLRRHIFFFL
 LQTYFPATLMVMLSWVSFWIDRRVAVPARVPLGITTVLTMSTIITGVNASMPRVSYIKAVDIYLWVSFVVF
 FLSVLEYAAVNYLTTVQERKEQLREKLPCTSGLPPPTAMLGNYSDGEVNDLDNYPENGEKPDMMV
 QLTLASERSSPQRKSQRSSVSMRIDTHAIDKYSRIIFPAAYILFNLIYWSIFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6606_h11.zip

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_002042.5](#)

RefSeq Size: 3174 bp

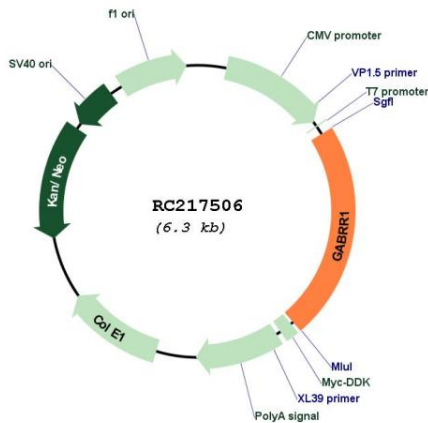
RefSeq ORF: 1440 bp

Locus ID: 2569

UniProt ID: [P24046](#)

Cytogenetics:	6q15
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	55.3 kDa
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 RC217506