

Product datasheet for **RG217467**

GABA A Receptor beta 2 (GABRB2) (NM_021911) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 2 (GABRB2) (NM_021911) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABA A Receptor beta 2
Synonyms:	DEE92; ICEE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217467 representing NM_021911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGAGAGTCCGAAAAGGGCTACTTTGGGATTTGGTCTTCCCCTTAATAATCGCCGCTGTCTGTG
 CGCAGAGTGTCAATGACCCTAGTAATATGTCGCTGGTTAAAGAGACGGTGGATAGACTCCTGAAAGGCTA
 TGACATTCGTCGAGACCAGATTTTGGAGTCCCCCGTGGCTGTGGGATGAACATTGACATTGCCAGC
 ATCGATATGGTTTCTGAAGTCAATATGGATTATACCTTGACAATGTACTTTCAACAAGCCTGGAGAGATA
 AGAGGCTGTCTATAATGTAATACCTTTAACTTGACTCTGGACAACAGAGTGGCAGACCAGCTCTGGGT
 GCCTGATACCTATTTCTGAACGATAAGAAGTCATTTGTGCACGGAGTACTGTTAAGAACCAGTATT
 CGCCTGCATCCTGATGGCACCCTCTTTATGGACTCAGAATCACAAACCACAGCTGCCTGCATGATGGACC
 TAAGGAGTACCCACTGGATGAACAAAACCTGCACCTTGGAAATTGAGAGCTATGGATACACAACCTGATGA
 CATTGAGTTTTACTGGCTGGCGATGATAATGCAGTAACAGGAGTAACGAAAATTGAACTCCACAGTTC
 TCTATTGTAGATTACAACTTATACCAAGAAGTTGTTTTTCCACAGTTCTATCCCAGTTATCCC
 TCAGCTTTAAGCTTAAGAGAAACATTGGCTACTTTATCCTGCAAAACATACATGCCTTCCATCCTGATTAC
 CATCCTCTCCTGGGTCTCCTTCTGGATTAATTACGATGCTTCAGCTGCAAGGGTGGCATTAGGAATCACA
 ACTGTCCTCACAATGACCACAATCAACACCCACCTCCGGGAAACTCTCCCTAAAAATCCCCTATGTGAAGG
 CCATTGACATGTACCTGATGGGGTGCTTTGTCTTCGTTTTTCATGGCCCTTCTGGAATATGCCCTAGTCAA
 CTACATCTTCTTTGGGAGGGGGCCCCAACGCCAAAAGAAAGCAGCTGAGAAGGCTGCCAGTGCCAAACAT
 GAGAAGATGCGCCTGGATGTCAACAAGATTTTTATAAAGATATTAACAAAATGGGACCAATATCGAT
 CTTGTGGGACCCTACTGAAACCTCTCCCAACTAGACGGACTACCAATTACGATTTCTCTGTATAC
 GATGGACCCCATGAGAACATCTTACTGAGCACTCTCGAGATAAAAAATGAAATGGCCACATCTGAGGCT
 GTGATGGGACTTGAGACCCAGAACACAATGCTAGCCTATGATGCCTCCAGCATCCAGTATCGGAAAG
 CTGGGTTGCCAGGCATAGTTTTGGCCGAAATGCTCTGGAACGACATGTGGCGCAAAAGAAAAGTCGCT
 GAGGAGACGCGCCTCCCAACTGAAAATCACCATCCCTGACTTGACTGATGTGAATGCCATAGATCGGTGG
 TCCCGCATATTCTCCAGTGGTTTTTCTTCTTCAACATCGTCTATTGGCTTTACTATGTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217467 representing NM_021911
 Red=Cloning site Green=Tags(s)

MWRVRKRGYFGIWSFPLIIAAVCAQSVNDPSNMSLVKETVDRLKGYDIRLRPFDGPPVAVGMNIDIAS
 IDMVSEVNMDYTLTMYFQQAWRDKRLSYNVIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRMI
 RLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWRGDDNAVTVTKIELPQF
 SIVDYKLITKKVVFSTGYPRLSLSFKLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGIT
 TVLTMTTINTHLRETLPKIPYVKAIDMYLMGCFVFMALLEYALVNYIFFGRGPQRQKKAASANN
 EKMRLDVNIIFYKDIKQNGTQYRSLWDPTGNLSPTRRTNYDFSLYTMDPHENILLSTLEIKNEMATSEA
 VMGLGDPSTMLAYDASSIQYRKAGLPRHSFGRNALERHVAQKKSRLRRRASQLKITIPDLTDVNAIDRW
 SRIFFPVVSFFNIVWLYYVN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021911

ORF Size: 1536 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

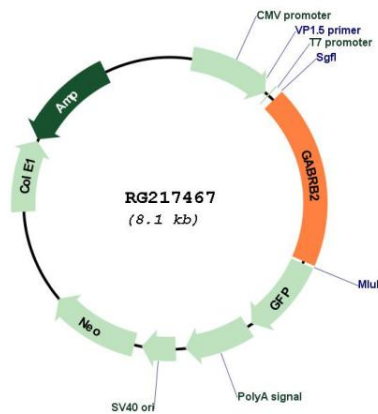
Reconstitution Method:

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_021911.1](#), [NP_068711.1](#)

RefSeq Size: 1974 bp
RefSeq ORF: 1539 bp
Locus ID: 2561
UniProt ID: [P47870](#)
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: The gamma-aminobutyric acid (GABA) A receptor is a multisubunit chloride channel that mediates the fastest inhibitory synaptic transmission in the central nervous system. This gene encodes GABA A receptor, beta 2 subunit. It is mapped to chromosome 5q34 in a cluster comprised of genes encoding alpha 1 and gamma 2 subunits of the GABA A receptor. Alternative splicing of this gene generates 2 transcript variants, differing by a 114 bp insertion. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217467