

Product datasheet for **RG205166**

GABA A Receptor beta 1 (GABRB1) (NM_000812) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GABA A Receptor beta 1 (GABRB1) (NM_000812) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GABA A Receptor beta 1 |
| Synonyms: | DEE45; EIEE45 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG205166 representing NM_000812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGACAGTACAAAATCGAGAGAGTCTGGGGCTTCTCTTTCCCTGTGATGATTACCATGGTCTGTT
 GTGCACACAGACCAATGAACCCAGCAACATGTCATACGTGAAAGAGACAGTGGACAGATTGCTCAAAGG
 ATATGACATTCGCTTGCAGCCGGACTTCGAGGGCCCCCGTCGACGTTGGGATGCGGATCGATGTCGCC
 AGCATAGACATGGTCTCCGAAGTGAATATGGATTATACTCACCATGTATTTCCAGCAGTCTTGAAAAG
 ACAAAGGCTTTCTTATTCTGGAATCCCACTGAACCTCACCTAGACAATAGGGTAGCTGACCAACTCTG
 TGTACCAGACACCTACTTCTGAATGACAAGAAATCATTTGTGCATGGGGTACAGTGAATAATCGAATG
 ATTCGACTGCATCCTGATGGAACAGTTCTCTATGGACTCCGAATCACAACCACAGCTGCATGTATGATGG
 ATCTTCGAAGATATCCACTGGATGAGCAGAAGTGCACCCTGGAGATCGAAAGTTATGGCTATACCACTGA
 TGACATTAATTTACTGGAATGGAGGAGAAGGGGCACTACTGGTGTAAATAAAATCGAACTTCTCAA
 TTTTCAATTGTTGACTACAAGATGGTGTCTAAGAAGGTGGAGTTCACAACAGGAGCGTATCCACGACTGT
 CACTAAGTTTTCGTCTAAAGAGAAAACATTGGTTACTTCAATTTGCAAACCTACATGCCTTCTACACTGAT
 TACAATCTGTCTGGGTGTCTTTTGGATCAACTATGATGCATCTGCAGCCAGAGTGCCTAGGAATC
 ACGACGGTGTACAATGACAACCATCAGCACCCCTCAGGGAGACCCTGCCAAAGATCCCTTATGTCA
 AAGCGATTGATATTTATCTGATGGGTGGCTTGTGTTGTCTGGCTCTGCTGGAGTATGCCTTTGT
 AAATTACATCTTCTTTGGGAAAGGCCCTCAGAAAAGGGAGCTAGCAACAAGACCAGAGTGCCAATGAG
 AAGAATAAACTGGAGATGAATAAAGTCCAGGTCGACGCCACGGTAACATTCTCCTCAGCACCCCTGGAAA
 TCCGGAATGAGACGAGTGGCTCGGAAGTCTCAGGAGCTGAGCGACCCCAAGGCCACCATGTACTCCTA
 TGACAGCGCCAGCATCCAGTACCGCAAGCCCCTGAGCAGCCGCGAGGCCTACGGGCGCGCCCTGGACCGG
 CACGGGGTACCCAGCAAGGGGCGCAACCCGAGGGTGCCTCCCAGCTCAAAGTCAAGATCCCGACTTGA
 CTGATGTGAATTCATAGACAAGTGGTCCCGAATGTTTTTCCCCATCACCTTTTCTTTTTAATGTCGT
 CTATTGGCTTTACTATGTACAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205166 representing NM_000812
 Red=Cloning site Green=Tags(s)

MWTVQNRESLGLLSFPVMITMVCCAHSSTNEPSNMSYVKETVDRLLKGYDIRLRPDFGGPPVDVGMRIDVA
 SIDMVSEVNMDYTLTMYFQQSWKDKRLSYSGIPLNLTLDNRVADQLCVPDITYFLNDKKSFVHGVTVKNRM
 IRLHPDGTVLVYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWNGGEGAVTGVNKIELPQ
 FSIVDYKMSKKEFTTGAYPRLSLSFRLKRNIGYFILQTYMPSTLITILSWVSFWINYDASAARVALGI
 TTVLTMTTISTHLRETLPKIPYVKAIDIYLMGCFVFLALLEYAFVNYIFFGKGPQKKGASKQDQSANE
 KNKLEMNKVQVDAHGNILLSTLEIRNETSGSEVLTSVSDPKATMYSYDSASIQYRKPLSSREAYGRALDR
 HGVPSKGRNRRASQLKVKIPDLTDVNSIDKWSRMFFPITFLFNVVYWLYYVH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000812

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_000812.2](#), [NP_000803.1](#)

RefSeq Size: 1925 bp

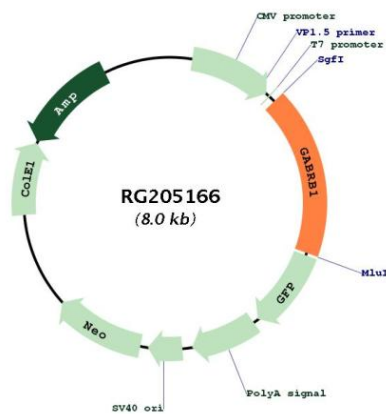
RefSeq ORF: 1425 bp

Locus ID: 2560

UniProt ID: [P18505](#)

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|--------------------------|--|
| Cytogenetics: | 4p12 |
| 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 1 subunit. It is mapped to chromosome 4p12 in a cluster comprised of genes encoding alpha 4, alpha 2 and gamma 1 subunits of the GABA A receptor. Alteration of this gene is implicated in the pathogenetics of schizophrenia. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RG205166