

## Product datasheet for **RG220967**

### **GABA A Receptor beta 3 (GABRB3) (NM\_021912) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_021912) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABA A Receptor beta 3
Synonyms:	DEE43; ECA5; EIEE43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220967 representing NM\_021912  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCTCCGGGCTCCTGGAGCTCTGCTGCCATCTGGCTCTCCTGGACCTGGGGACCCGAGGCTCTG  
 AGCCCCGAGTGTGAACGATCCCGGAACATGTCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAGG  
 CTACGACATTCGCCTAAGACCCGACTTCGGGGTCCCCGGTCTGCGTGGGGATGAACATCGACATCGCC  
 AGCATCGACATGGTTTCCGAAGTCAACATGGATTATACCTTAACCATGTATTTTCAACAATATTGGAGAG  
 ATAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATG  
 GGTGCCCGACACATATTTCTAAATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATG  
 ATCCGTCTTACCCTGATGGGACAGTGTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGG  
 ACCTCAGGAGATACCCCTGGACGAGCAGAAGTCACTCTGAAAATTGAAAGCTATGGCTACACCACGGA  
 TGACATTGAGTTTACTGGCGAGGCGGGACAAGGCTGTACCGGAGTGGAAAGGATTGAGCTCCCGCAG  
 TTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTCGCCACAGGTGCCTATCCTCGACTGT  
 CACTGAGCTTTCGGTTGAGAGGAACATTGGATACTTCACTTCTCAGACTTATATGCCCTCTATACTGAT  
 AACGATTCTGTCGTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTTGCCCTCGGGATC  
 ACAACTGTGTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCCAAAATCCCCTATGTCA  
 AAGCCATTGACATGTACCTTATGGGCTGCTTCTGCTTTGTGTTCTGGCCCTTCTGGAGTATGCCTTTGT  
 CAACTACATTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAAAAAGACAGCCAAGGCAAAG  
 AATGACCGTTCAAAGAGCGAAAGCAACCGGTGGATGCTCATGAAATATTCTGTTGACATCGTGGAA  
 TTCACAAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACA  
 CTCAGGAATCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCTGGGGACAGAAGC  
 CTCCCGACAAGAAGACCATCTACGGAGGAGGTCTTACAGCTCAAAATTTAAATACCTGATCTAACCG  
 ATGTGAATGCCATAGACAGATGGTCCAGGATCGTGTTCATTACTTTTTCTTTTTCACTTAGTTTA  
 CTGGCTGTACTATGTTAAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG220967 representing NM\_021912  
 Red=Cloning site Green=Tags(s)

MCSGLELLLLPIWLSWTLGTRGSEPRSVNDPGNMSFVKETVDKLLKGYDIRLRPDFGGPPVCVGMNIDIA  
 SIDMVSEVNMDYTLTMYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRM  
 IRLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTDDIEFYWRGGDKAVTGVERIELPQ  
 FSIVEHRLVSRNVVFATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGI  
 TTVLTMTTINTHLRETLPKIPYVKAIDMYLMGCFVVFVFLALLEYAFVNYIFFGRGPQRQKLAEKTA  
 NDRSKSESNRVDAGNILLTSLVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSMPEGHGRFLGDRS  
 LPHKHTLRRRSSQLKIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVYWLYYVN

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021912

**ORF Size:** 1419 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\\_021912.5](#)

**RefSeq Size:** 2970 bp

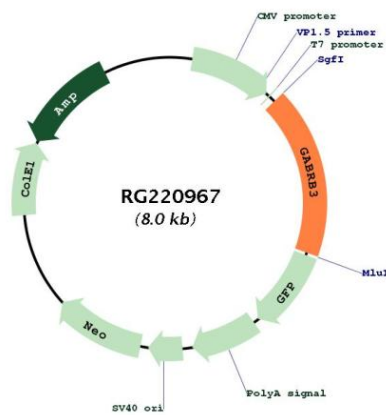
**RefSeq ORF:** 1422 bp

**Locus ID:** 2562

**UniProt ID:** [P28472](#)

<b>Cytogenetics:</b>	15q12
<b>Domains:</b>	Neur_chan_memb, Neur_chan_LBD
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	This gene encodes a member of the ligand-gated ionic channel family. The encoded protein is one the subunits of a multi-subunit chloride channel that serves as the receptor for gamma-aminobutyric acid, a major inhibitory neurotransmitter of the mammalian nervous system. This gene is located on the long arm of chromosome 15 in a cluster with two other genes encoding related subunits of the family. This gene may be associated with the pathogenesis of several disorders including Angelman syndrome, Prader-Willi syndrome, nonsyndromic orofacial clefts, epilepsy and autism. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG220967