

## Product datasheet for **RG231211**

### GABA A Receptor beta 3 (GABRB3) (NM\_001191321) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | GABA A Receptor beta 3 (GABRB3) (NM_001191321) Human Tagged ORF Clone          |
| Tag:                      | TurboGFP   |
| Symbol:                   | GABRB3   |
| Synonyms:                 | DEE43; ECA5; EIEE43  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG231211 representing NM_001191321<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGCCACCTACCAGACAGAAGAGGATTATACCTTAACCATGTATTTCAACAATATTGGAGAGATA  
AAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCAGCTTGACAATCGAGTGGCTGACCAGCTATGGGT  
GCCCGACACATATTTCTAAATGACAAAAGTCATTTGTGCATGGAGTGACAGTGAAAACCGCATGATC  
CGTCTTACCCTGATGGGACAGTGCTGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGGACC  
TCAGGAGATACCCCTGGACGAGCAGAAGTGCCTCTGGAAATTGAAAGCTATGGCTACACCACGGATGA  
CATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTGTACCGGAGTGGAAAGGATTGAGCTCCCGCAGTTC  
TCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCTTCGCCACAGGTGCCTATCCTCGACTGTCAC  
TGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTCAGACTTATATGCCCTCTATACTGATAAC  
GATTCTGTCTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTAGAGTTGCCCTCGGGATCACA  
ACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCAAAATCCCTATGTCAAAG  
CCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCTCGGCCCTTCTGGAGTATGCCTTTGTCAA  
CTACATTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAAAAAGACAGCCAAGGCAAAGAAT  
GACCGTTCAAAGAGCGAAAGCAACCGGGTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAGTTC  
ACAATGAAATGAATGAGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAACTC  
AGGAATCCAGTACAGAAACAGAGCATGCCTCGAGAAGGCATGGGCGATTCTGGGGGACAGAAGCCTC  
CCGCACAAGAAGACCCATCTACGGAGGAGTCTTACAGCTCAAATATAAATACCTGATCTAACCGATG  
TGAATGCCATAGACAGATGGTCCAGGATCGTGTTCATTCACTTTTTCTTTTTCAACTTAGTTTACTG  
GCTGTACTATGTTAAC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG231211 representing NM\_001191321  
 Red=Cloning site Green=Tags(s)

MWATYQTEEDYTLTMYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRMI  
 RLHPDGTVLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTDDIEFYWRGGDKAVTGVERIELPQF  
 SIVEHRLVSRNVVFATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGIT  
 TVLTMTTINTHLRETLPKIPYVKAIDMYLMGCFVVFVFLALLEYAFVNYIFFGRGPQRQKLAEKAKAKN  
 DRKSKESNRVDAHGNILLTSLEVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSPREGHGRFLGDRSL  
 PHKKTHLRRRSSQLKIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVYWLYYVN

TRTRPLE - GFP Tag - V

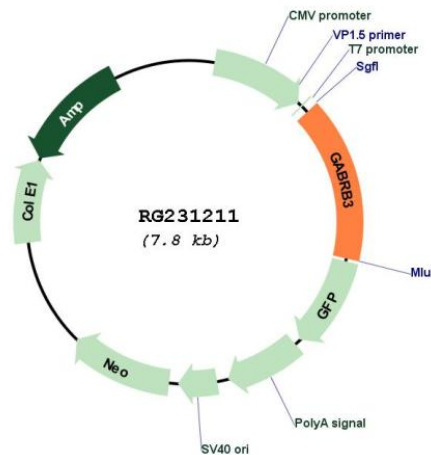
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001191321

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1206 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001191321.3</a>  |
| <b>RefSeq Size:</b>           | 5543 bp   |
| <b>RefSeq ORF:</b>            | 1209 bp   |
| <b>Locus ID:</b>              | 2562  |
| <b>UniProt ID:</b>            | <a href="#">P28472</a>  |
| <b>Cytogenetics:</b>          | 15q12   |
| <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] |