

## Product datasheet for **RG237905**

### GABA A Receptor beta 3 (GABRB3) (NM\_001278631) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor beta 3 (GABRB3) (NM_001278631) 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:	>RG237905 representing NM_001278631. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTATTTTCAACAATATTGGAGAGATAAAAGGCTCGCCTATTCTGGGATCCCTCTCAACCTCACGCTT
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GAAATTGAAAGCTATGGCTACACCACGGATGACATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTGTT
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TTTGTGTTCTGGCCCTTCTGGAGTATGCCCTTGTCAACTACATTTTCTTTGGAAGAGCCCTCAAAGG
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AGGTCTTCACAGCTCAAATTAATAACCTGATCTAACCGATGTGAATGCCATAGACAGATGGTCCAGG
ATCGTGTTCATTCACTTTTTCTTTTCAACTTAGTTTACTGGCTGTACTATGTTAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237905  
 Blue=ORF Red=Cloning site Green=Tag(s)

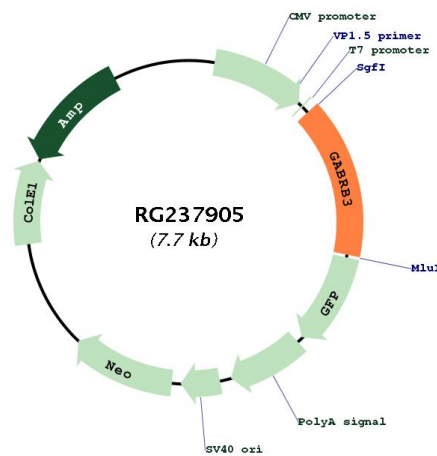
MYFQQYWRDKRLAYSGIPLNLTLDNRVADQLWVPDITYFLNDKKSFVHGVTVKNRMIRLHPDGTVL YGLR  
 ITTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWRGGDKAVTGVERIELPQFSIVEHRLVSRNV  
 VFATGAYPRLSLSFRLKRNIGYFILQTYMPSILITILSWVSFWINYDASAARVALGITTVLTMTTINTH  
 LRETLPKIPYVKAIDMYLMGCFVFLALLEYAFVNYIFFGRGPQRQKLAEKTAKAKNDRSKSESNRV  
 DAHGNILLTSLEVHNEMNEVSGGIGDTRNSAISFDNSGIQYRKQSMPEGHGRFLGDRSLPHKKTHLRR  
 RSSQLKIKIPDLTDVNAIDRWSRIVFPFTFSLFNLVYWL YVYN  
 TRTRPLEMESDEGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPGYPENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001278631
<b>ORF Size:</b>	1164 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>RefSeq:</b>	<a href="#">NM_001278631.1</a> , <a href="#">NP_001265560.1</a>
<b>RefSeq Size:</b>	5889 bp
<b>RefSeq ORF:</b>	1167 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>MW:</b>	45.5 kDa
<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]