

## Product datasheet for **RG206286**

### **GABA A Receptor alpha 3 (GABRA3) (NM\_000808) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GABA A Receptor alpha 3 (GABRA3) (NM_000808) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABA A Receptor alpha 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206286 representing NM\_000808  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATAATCACACAAACAAGTCACTGTTACATGACCAGCCTTGGGATTCTTTTCCTGATTAATATCTCTC  
 CTGGAACCACTGGTCAAGGGGAATCAAGACGACAAGAACCCTGGGACTTTGTGAAGCAGGACATTGGCGG  
 GCTGTCTCCTAAGCATGCCCCAGATATTCTGATGACAGCACTGACAACATCACTATCTTACCAGAATC  
 TTGGATCGTCTTCTGGACGGCTATGACAACCGGCTGCGACCTGGGCTTGGAGATGCACTGACTGAAGTGA  
 AGACTGACATCTACGTGACCAGTTTGGCCCTGTGTCAGACACTGACATGGAGTACACTATTGATGTATT  
 TTTTCGGCAGACATGGCATGATGAAAGACTGAAATTTGATGGCCCATGAAGATCCTTCCACTGAACAAT  
 CTCCTGGTAGTAAGATCTGGACACCGGACACCTTCTCCACAATGGCAAGAAATCAGTGGCTCATAACA  
 TGACCACGCCCAACAAGCTGCTCAGATTGGTGGACAACGGAACCCCTCCCATAACAATGAGGTTAACAA  
 TCATGCTGAGTGTCCCATGCATTTGGAAGATTTCCCATGGATGTGCATGCCTGCCACTGAAGTTTGG  
 AGCTATGCCTATACAACAGCTGAAGTGGTTTATTCTTGGACTCTCGGAAAGAACAATCCGTGGAAGTGG  
 CACAGGATGGTTCTCGCTTGAACCAAGTATGACCTTTTGGCCATGTTGTTGGGACAGAGATAATCCGGTC  
 TAGTACAGGAGAAATATGTCGTCATGACAACCCACTTCCATCTCAAGCGAAAAATTGGCTACTTTGTGATC  
 CAGACCTACTTGGCATGTATCATGACTGTCATTCTGTCACAAGTGTCTTCTGGCTCAACAGAGAGTCTG  
 TTCCTGCCGTACAGTCTTTGGTGTACCACCTGTGCTTACCATGACCACCTTGGATATCAGTGCCAGAAA  
 TTCCTTACCTAAAGTGGCATATGCGACGGCCATGGACTGGTTCATAGCCGTCTGTTATGCCTTTGTATTT  
 TCTGCACTGATTGAATTTGCCACTGTCAACTATTTACCAAGCGGAGTTGGGCTTGGGAAGGCAAGAAGG  
 TGCCAGAGGCCCTGGAGATGAAGAAGAAAAACCCAGCAGCCCCAGCAAAGAAAAACCCAGCACTCTTCAA  
 CATCGTGGGACCACTATCCCATCAACCTGGCCAAGGACACTGAATTTTCCACCATCTCCAAGGGCGCT  
 GCTCCCAGTGCCTCCTCAACCCCAACAATCATTGCTTCAACCAAGGCCACCTACGTGCAGGACAGCCCGA  
 CTGAGACCAAGACCTACAACAGTGTGCAAGGTTGACAAAATTTCCCGCATCATCTTCTGTGCTCTT  
 TGCCATATTCAATCTGGTCTATTGGCCACATATGTCAACCGGGAGTCAGCTATCAAGGGCATGATCCGC  
 AAACAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206286 representing NM\_000808  
 Red=Cloning site Green=Tags(s)

MIITQTSHCYMTSLGILFLINILPGTTGQGESRRQEPGDFVKQDIGGLSPKHAPDIPDDSTDNITIFTRI  
 LDRLLDGYDNRRLRPLGDAVTEVKTDIYVTSFGPVSDTDMEYIDVFFRQTWHERLKFDPKMLPLNN  
 LLASKIWPDTFFHNGKKSVAHNMTTPNKLLRLVDNGLPYTMRLTIHAECPMHLEDFFMDVHACPLKFG  
 SYAYTTAEVVYSWTLGKNKSVEVAQDGSRLNQYDLLGHVVGTEIIRSSTGEYVVMTHFHLKRKIGYFVI  
 QTYLPCIMTVILSQVSFNLNRESVPARTVFGVTTVLMTTLSISARNSLPKVAYATAMDWFIAVCYAFVF  
 SALIEFATVNYFTKRSWAWEGKKVPEALEMKKKTPAAPAKKTSTTFNIVGTTYPINLAKDTEFSTISKGA  
 APSASSTPTIIASPKATYVQDSPTETKTYNSVSKVDKISRIFPVLFAIFNLVYWATYVYNRESAIKGMIR  
 KQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000808

**ORF Size:** 1476 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](mailto: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.

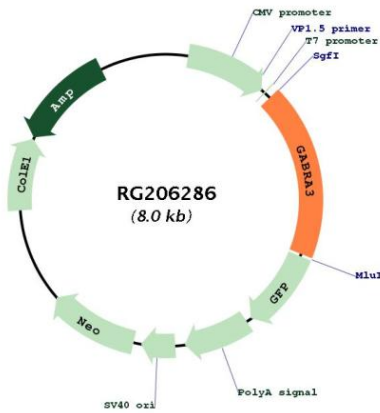
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_000808.2](#), [NP\\_000799.1](#)

RefSeq Size:	1901 bp
RefSeq ORF:	1479 bp
Locus ID:	2556
UniProt ID:	<a href="#">P34903</a>
Cytogenetics:	Xq28
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:	GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG206286