

Product datasheet for **RG206307**

GABA A Receptor gamma 1 (GABRG1) (NM_173536) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GABA A Receptor gamma 1 (GABRG1) (NM_173536) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GABA A Receptor gamma 1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG206307 representing NM_173536 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCCTTTGAAAGCTTTTCTCTTCTCCCCTTTTCTTCTGCGGAGTCAAAGTAGAGGGTGAGGTTGG
TCTTCTTGTTACTGACCTGCATTTGGGAACTGTGTTGATAAGGCAGATGATGAAGATGATGAGGATTT
AACGGTGAACAAAACCTGGGCTTGGCCCCAAAATTTCATGAAGGAGATATCACACAAATCTGAATTCA
TTGCTTCAAGGCTATGACAATAAACTTCGTCAGATATAGGAGTGAGGCCACAGTAATTGAAACTGATG
TTTATGTAACAGCATTGGACCAATTGATCCAATTAATGGAATATAACAATAGATAAATTTTGGCCCA
AACCTGGTTTGACAGTCGTTTAAAATTCATAGTACCATGAAAGTGCTTATGCTTAACAGTAATATGGTT
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CTAATCGTCTGCTTCGAATTTGGAATGATGGACGAGTTCTGTATACTCTAAGATTGACAATTAATGCAGA
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GATTATATCAGTTTGCATTTGTAGGTTACGGAACCTCACTGAAATCACTCACACGATCTCTGGGGATTA
TGTTATCATGACAATTTTTTTGACCTGAGCAGAAGAATGGGATATTTCACTATTCAGACCTACATTCCA
TGCATTCTGACAGTTGTTCTTTCTGGGTGCTTTTTGGATCAATAAAGATGCAGTGCCTGCAAGAACAT
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TATGGAACCTTGCAATTTTTACCAGCAACAAAAGGAAAGACTGCTACTAAAGACAGAAAAGCTAAAAA
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GCAAGAAGATGATTATGAGTATCAGTGTGGAGGGCAAAGATTGTGCCAGCTTCTTCTGTTGCTTTGAA
GACTGCAGAACAGGATCTTGGAGGGAAGGAAGGATACACATACGCATTGCCAAAATTGACTCTTATTCTA
GAATATTTTTCCCAACCGCTTTTGCCTGTTCAACTTGGTTTATTGGGTTGGCTATCTTTACTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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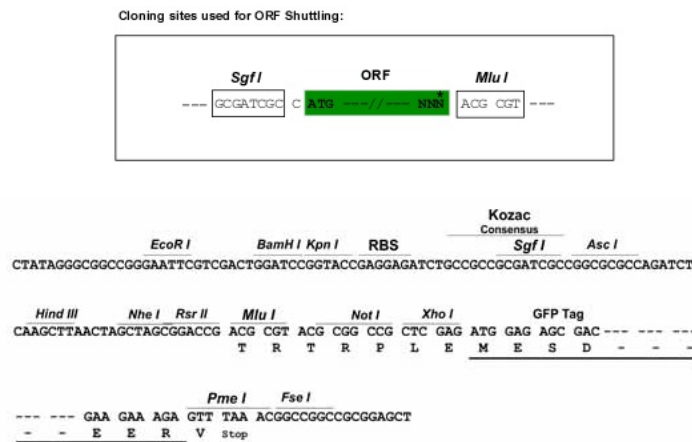
Protein Sequence: >RG206307 representing NM_173536
Red=Cloning site Green=Tags(s)

MGPLKAFLLSPFLLRSQSRGVRLVFLLLTLHLGNCVDKADDEDDEDLTVNKTWVLAPKIHGEGDITQILNS
 LLQGYDNKLRPDIGVRPTVIETDVYVNSIGPVDPINMEYTIIDIIFAQTWFD SRLKFNSTMKVLMLNSNMV
 GKIWIWPDFFRNSRKSDAHWITTPNRLLRWINDGRVLYTLRLTINAECYLQLHNFPMDEHSCPLEFSSYG
 YPKNEIEYKWKKPSVEVADPKYWRLYQFAFVGLRNSTEIHTISGDYVIMTIFFDL SRRMGYFTIQTYIP
 CILTVVLSWVSFINKDAVPARTSLGITTVLTM TTLSTIARKSLPKVSYVTAMD L FVSVC FIFVFAALME
 YGTLHYFTSNQKGTATKDRKLNKASMTPLHPGSTLIPMNNISVPQEDDYEQCLEGKDCASFFCCFE
 DCRTGSWREGRIHIRIAKIDSYSRIFFPTAFALFNLVYVWGYLYL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173536

ORF Size: 1395 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_173536.1](#)

RefSeq Size: 6769 bp

RefSeq ORF: 1398 bp

Locus ID: 2565

UniProt ID: [Q8N1C3](#)

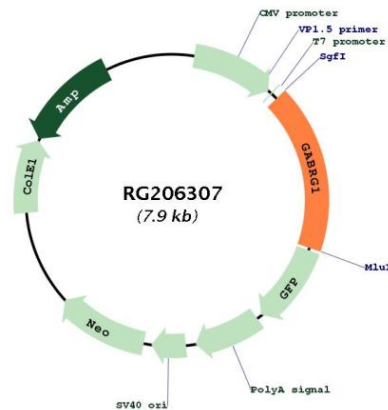
Cytogenetics: 4p12

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene belongs to the ligand-gated ionic channel family. It is an integral membrane protein and plays an important role in inhibiting neurotransmission by binding to the benzodiazepine receptor and opening an integral chloride channel. This gene is clustered with three other family members on chromosome 4. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206307