

Product datasheet for **RG219102**

Glycine Receptor alpha 3 (GLRA3) (NM_001042543) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycine Receptor alpha 3 (GLRA3) (NM_001042543) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glycine Receptor alpha 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219102 representing NM_001042543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGTGAGACACTTTCGGACATTAGTTTCGGGATTTTACTTCTGGGAAGCAGCACTGTTACTCA
GTTTGGTTGCCACAAAGGAAACAGACAGTGAAGATCTCGAAGTGCTCCAATGTCACCTTCTGATTTTCT
GGATAAATTAATGGGCAGGACATCAGGATATGATGCAAGAATCAGACCAATTTTAAAGGCCCTCCAGTT
AATGTCACATGCAACATATTCATCAACAGCTTTGGCTCTATCGCAGAGACGACCATGGATTACAGAGTGA
ATATCTTTCTTCGTCAGAAATGGAATGATCCCCGCCTCGCGTACAGTGAATATCCTGACGACTTTTAGA
CCTCGACCCCTCCATGTTGGACTCCATTTGGAAACCTGATTTGTTCTTTGCAATGAAAAGGGTGCCAAC
TTTCATGAAGTCACTACAGACAACAAATTGCTAAGAATTTTCAAAAATGGAAATGTTCTTTATTCAATAA
GATTAACATTAACACTTTCCTGTCCAATGGATCTCAAGAATTTTCCCATGGATGTACAAACATGTATAAT
GCAACTGGAAAGCTTTGGGTACACAATGAATGATCTCATTTTTGAATGGCAAGATGAGGCACCCGTACAA
GTGGCAGAAGGACTCACTTTGCCCCAGTTTCTGTTGAAAGAAGAAAAAGATTTACGATACTGCACATAAC
ATTACAATACAGGAAAGTTTACGTGTATAGAAGTGGGATTCATCTGGAGCGACAAATGGGATACTATCT
GATCCAGATGTACATCCAGTCTCCTGATTGTTATTCTATCCTGGGTTTCATTCTGGATCAACATGGAT
GCAGCACCGGCCAGGGTAGCTCTGGGGATAACCACTGTGCTAACGATGACTACACAGAGTTCAGGATCAC
GAGCTTCCCTTGCCAAAAGTTTCATATGTCAAAGCTATTGATATTTGGATGGCAGTATGCCTCCTTTTTGT
GTTTTTCAGCACTTCTGGAGTATGCAGCTGTAAATTTTGTATCAAGACAACACAAAGAACTTCTGAGATT
CGACGAAAGAGAAAGAATAAGGATGATGAGGTAAGGGAAAGCCGATTCAGCTTCACAGCCTATGGAATGG
GACCATGTCTACAAGCAAAGGATGGCATGACTCCAAGGGCCCAACCACCCTGTCCAGGTAATGCCAAA
AAGTCTGATGAAATGAGGAAGTCTTTATCGACCGGGCCAAGAAGATTGATACCATCTCCCGAGCTGC
TTCCATTAGCTTTTTGATTTTTAATATTTTCTACTGGGTTATCTATAAAATTTCTAGGCATGAGGATA
TTCATCAGCAGCAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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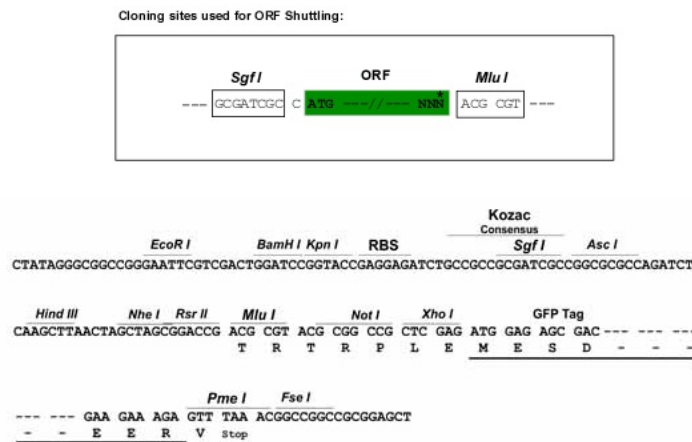
Protein Sequence: >RG219102 representing NM_001042543
Red=Cloning site Green=Tags(s)

MAHVRHFRTLVSIFYFWEAALLSLVATKETDSARSRAPMSPSDFLDKLMGRTSGYDARIRPNFKGPPV
 NVTCNIFINSFGSIAETTM DYRVNIFLRQKWNDRLAYSEYPDDSLDLDP SMLDSIWKPD LFFANEKGAN
 FHEVTTDNKLLRIFKNGNVLYSIRLTLTLSCPMDLKNFPM DVQTCIMQLESFGYTMNDLIFEWQDEAPVQ
 VA EGLTLPQFLKKEEKDLRYCTKH YNTGKFTCIEVRFHLERQM GYYLIQMYIP SLLIVILSWV SFWINMD
 AAPARVALGITTVLMTTQSSGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVNFVSRQH KELLRF
 RRRKRNKDDEVRESRFSFTAYGMGPLQAKDGMT PKGNHPVQVMPKSPDEM RKVFI DRAKKIDTISRAC
 FPLAFLIFNIFYWVIYKILRHEDIHQQQD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042543

ORF Size: 1347 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 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_001042543.3](#)

RefSeq Size: 3592 bp

RefSeq ORF: 1350 bp

Locus ID: 8001

UniProt ID: [O75311](#)

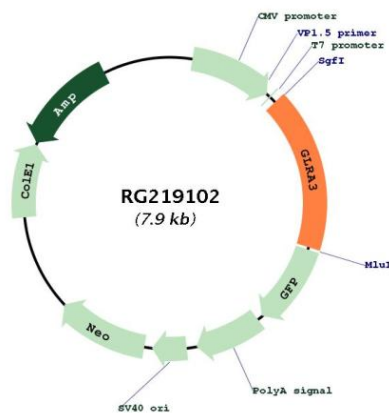
Cytogenetics: 4q34.1

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

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the ligand-gated ion channel protein family. The encoded protein is a member of the glycine receptor subfamily. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

Product images:



Circular map for RG219102