

## Product datasheet for **RC219102**

### 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:	Myc-DDK
Symbol:	Glycine Receptor alpha 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC219102 representing NM\_001042543  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCACGTGAGACACTTTTCGGACATTAGTTTCGGGATTTTACTTCTGGGAAGCAGCACTGTTACTCA  
 GTTTGGTTGCCACAAAGGAAACAGACAGTGAAGATCTCGAAGTCTCCAATGTCACCTTCTGATTTTCT  
 GGATAAATTAATGGCAGGACATCAGGATATGATGCAAGAATCAGACCAATTTTAAAGGCCCTCCAGTT  
 AATGTCACATGCAACATATTCATCAACAGCTTTGGCTCTATCGCAGAGACGACCATGGATTACAGAGTGA  
 ATATCTTTCTTCGTAGAAATGGAATGATCCCCGCTCGGTACAGTGAATATCTGACGACTCTTTAGA  
 CCTCGACCCCTCCATGTTGGACTCCATTTGAAACCTGATTTGTTCTTTGCCAATGAAAAGGGTCCCAAC  
 TTTTCATGAAGTCACTACAGACAACAAATGCTAAGAATTTTCAAAAATGGAAATGTTCTTTATTCAATAA  
 GATTAACATTAACACTTTCTGTCCAATGGATCTCAAGAATTTTCCCATGGATGTACAAACATGTATAAT  
 GCAACTGGAAAGCTTTGGGTACACAATGAATGATCTCATTGTTGAAAGGCAAGATGAGGCACCCGTACAA  
 GTGGCAGAAGGACTCACTTTGCCCCAGTTTCTGTTGAAAGAAGAAAAAGATTTACGATACTGCCTAAAC  
 ATTACAATACAGGAAAGTTTACGTGTATAGAAGTGCATTCCATCTGGAGCGACAATGGGATACTACTCT  
 GATCCAGATGTACATCCAGTCTCCTGATTGTTATTCTATCCTGGGTTTCATTCTGGATCAACATGGAT  
 GCAGCACCGGCCAGGGTAGCTCTGGGGATAACCACTGTGCTAACGATGACTACACAGAGTTCAGGATCAC  
 GAGCTTCCTTGCCAAAAGTTTCATATGTCAAAGCTATTGATATTTGGATGGCAGTATGCCTCCTTTTTGT  
 GTTTTCAGCACTTCTGGAGTATGCAGCTGTAATTTTGTATCAAGACAACACAAAGAACTTCTGAGATT  
 CGACGAAAAGAGAAAGAAATAGGATGATGAGGTAAAGGAAAGCCGATTGAGCTTACAGCCTATGGAATGG  
 GACCATGTCTACAAGCAAAGGATGGCATGACTCCAAAGGGCCCCAACCCCTGTCCAGGTAATGCCAAA  
 AAGTCCTGATGAAATGAGGAAGGCTTTATCGACCGGGCCAAGAAGATTGATACCATCTCCCGAGCCTGC  
 TTCCATTAGCTTTTTGATTTTAAATTTTTCTACTGGTTATCTATAAAATTTTAGGCATGAGGATA  
 TTCATCAGCAGCAAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219102 representing NM\_001042543  
 Red=Cloning site Green=Tags(s)

MAHVRHFRTLVSIFYFWEAALLLSLVATKETDSARSRAPMSPSDFLDKLMGRSGYDARIRPNFKGPPV  
 NVTCNIFINSGSIAETMDYRVNIFLRQKWNDRLAYSEYPDDSLDLPSMLDSIWKPDFFANEKGAN  
 FHEVTTDNKLLRIFKNGNLYSIRLTLTLSCPMDLKNFPMQVQTCIMQLESFGYTMNDLIFEWQDEAPVQ  
 VAEGTLTPQFLLKEEKDLRYCTKHYNTGKFTCIEVRFHLERQMGYYLIQMYIPSLILVILSWVSWINMD  
 AAPARVALGITTTLTMTTQSSGSRASLPKVSYVKAIDIWMAVCLLFVFSALLEYAAVNFVSRQHKELLRF  
 RRRKRNKDDEVRESRFSFTAYGMGPCLQAKDGMTPKGNHPVQVMPKSPDEMRFVIFDRAKKIDTISRAC  
 FPLAFLIFNIFYWVIYKILRHEDIHQDQD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8060\\_g03.zip](https://cdn.origene.com/chromatograms/mk8060_g03.zip)

**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](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](#)

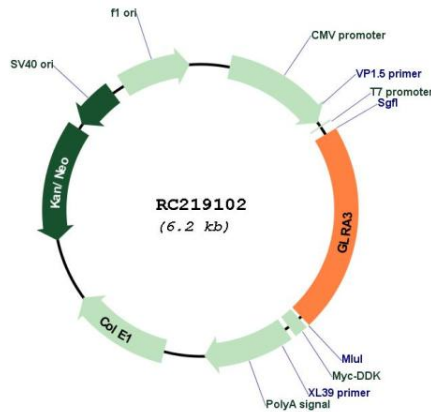
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_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  
**MW:** 51.8 kDa  
**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 RC219102