

## Product datasheet for **RG206298**

### alpha 2 Glycine Receptor (GLRA2) (NM\_002063) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_002063) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	alpha 2 Glycine Receptor
Synonyms:	GLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206298 representing NM\_002063  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTCATTTTCTTAGAGACAAACCCTTCAGGA  
 CGGCTTCTGCAAAGACCATGACTCCAGGTCTGAAAACAACCTTACAGACCCTATCTCCTCAGATTT  
 CTTGGACAAGTTAATGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTAAAGTCTCCCA  
 GTAACGTTACTTGCAATATTTTATCAACAGTTTGGATCAGTCACAGAAACGACCATGGACTACCGAG  
 TGAATATTTTCTGAGACAACAGTGAATGATTCACGGCTGGCGTACAGTGAGTACCCAGATGACTCCCT  
 GGACTTGGACCCATCCATGCTAGACTCCATTTGAAAACAGATTTGTTCTTTGCCAATGAGAAGGGTGCC  
 AACTTCCACGATGCACCACTGACAACAATTGCTACGGATTTGAAAAATGGCAAAGTCTCTACAGTA  
 TCAGACTCACCTTGACCTTATCCTGTCCATGGACTTGAAGAATTTCCGATGGATGCCAGACCTGTAC  
 AATGCAGCTGGAGAGTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTG  
 CAAGTTGCTGAAGGATTGACCCTGCCCCAGTTTATTTGAAAGAAGAGAAGGAAGTGGCTACTGTACAA  
 AGCACTACAACACTGAAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCCAAATGGGATATTA  
 TTTGATCCAGATGACATCCCAAGCCTGCTTATAGTAATTTTGCCTGGGTTTCCTTTGGATAAATATG  
 GATGCAGCCCCTGCCAGGTCGCACTGGGCATCACCACAGTCTTAACGATGACCACCCAGAGTTCAGGCT  
 CCAGGGCATCTCTGCCAAAGTCTCCTATGTAAGGCGATTGACATCTGGATGGCGGTGTGCCTTCTGTT  
 TGTGTTTGTGCTTACTGGAATACGCAGCGGTGAACCTCGTCTCCAGGCAACACAAGGAGTTCCTGCGC  
 CTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTAAAGTCGTTTTAATTTAGCG  
 GTTATGGGATGGGTCACTGCCTCAAGTGAAGATGGAACAGTGTCAAGGCCACACCTGCCAACCCT  
 CCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAAAAGGATTGACAG  
 ATATCTCGAGCTGCCTTCCATTGGCCTTCTCATTTCACATCTTTACTGGATCACATACAAGATCA  
 TTCGGCATGAAGATGTCCACAAGAAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206298 representing NM\_002063  
 Red=Cloning site Green=Tags(s)

MNRQLVNILTALFAFFLETNHFRTAFCKDHSRSGKQPSQTLSPSDFLDKLMGRITSGYDARIRPNFKGPP  
 VNVTCNIFINSFGSVTETTM DYRVNIFLRQQWNSRLAYSEYPDDSLDLDPMSLDIWKPDLEFANEKGA  
 NFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPMDLKNFPMQVCTMQLESFGYTMNDLIFEWLSGDPV  
 QVAEGLTLPQFILKEEKELGYCTKHYNTGKFTCIEVKFHLERQMGYYLIQMYIPSLILVILSWVSFWINM  
 DAAPARVALGITTVLMTTQSSGSRASLPKVSYVKAIDIWMAVCLLFVFAALLEYAANFVSRQHKEFLR  
 LRRRQRQNKEDVTRESRFNFSYGMGHCLQVKDGTAVKATPANPLPQPPKDGDAIKKKFVDRAKRIDT  
 ISRAAFPLAFLIFNIFYWITYKIIRHEDVHKK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_002063

**ORF Size:** 1356 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\\_002063.4](#)

**RefSeq Size:** 3214 bp

**RefSeq ORF:** 1359 bp

**Locus ID:** 2742

**UniProt ID:** [P23416](#)

**Cytogenetics:** Xp22.2

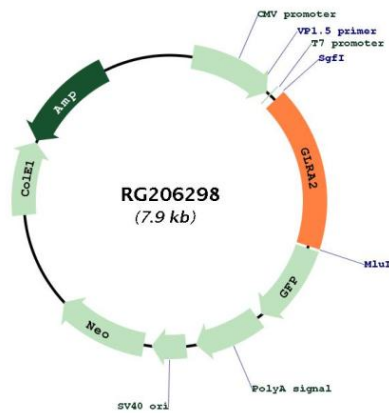
**Domains:** Neur\_chan\_memb, Neur\_chan\_LBD

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

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** The glycine receptor consists of two subunits, alpha and beta, and acts as a pentamer. The protein encoded by this gene is an alpha subunit and can bind strychnine. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]

**Product images:**



Circular map for RG206298