

## Product datasheet for **MC216703**

### **Glr3 (NM\_080438) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Glr3 (NM_080438) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glr3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216703 representing NM\_080438  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTTGGATAAGACTGCTTTTCAGGATCGTGGATCTCTTCCGTATCATGGCCACGTGAGACTTTTC  
 GGACACTAGTTTCTGGATTTTACTTCTGGGAAGCCGCACTGTTACTGAGTTTGGTGGCCACAAAGGAAAC  
 AACACAGTGCAGATCTCGAAGTCTCCAATGTCACCTTCTGATTTTCTGGACAACTAATGGGGAGGACA  
 TCGGGGTATGATGCAAGAATCAGACCCAACTTCAAAGTCTCCAGTTAATGTCACATGCAACATATTCA  
 TAAACAGCTTTGGCTCCATTGCAGAGACGACTATGGATTACAGAGTAAACATTTTCTTCGTGAGAGTG  
 GAATGATCCTCGTCTGCATACAGTGAATATCCTGACGATTCATTAGACCTTGACCCGTCTATGTTGGAT  
 TCCATTTGGAAACCTGACTTGTCTTTGCTAATGAGAAGGGGGCTAACTCCACGAAGTACCACAGATA  
 ACAAGCTGCTAAGAATTTTCAAAAATGGAAATGCCTTTATTCAATAAGGTTGACATTAACACTCTCCTG  
 TCCAATGGATCTCAAGAATTTCCAATGGATGTACAAACATGCATAATGCAACTGAAAGCTTTGGGTAC  
 ACAATGAATGATCTCATTTTGAATGGCAAGATGAAGCCCCAGTACAAGTGGCTGAAGGACTCACTTTGC  
 CTAATTTCTGTTGAAAGAAGAAAAGGACTTGGCGTACTGCACTAAACACTACAATACAGAAAAGTTTAC  
 ATGCATAGAAGTGCATTCCATCTTGAGCGTCAGATGGGCTATTACTTGATCCAGATGTACATCCCCAGC  
 CTCCTGATCGTTATTCTATCCTGGGTCTCATTCTGGATTAACATGGATGCAGCCCCAGCTAGAGTAGCTT  
 TGGGCATCACCCTGACTTACTATGACCACACAGAGTTCTGGATCCCGGGCCTCCTTACCAAAGGTGTC  
 ATACGTCAAGGCTATTGACATTTGGATGGCGGTGTGCCTCTTTTGTGTTCTCAGCACTTCTGGAGTAT  
 GCAGCCGTGAATTTGTCTCAAGGCAACACAAGGAGCTGTTGAGGTTTCGGCGAAAGAGAAAGAATAAGA  
 CGGAAGCTTTTGCAGTGGAGAAGTTTACCGTTTCTCAGACCGGATGATGAGGTGAGGGAGAGTCGATT  
 CAGCTTCACTGCCTATGGAATGGGGCCCTGTCTGCAAGCCAAGGATGGTGTGGTTCCAAAAGGCCCAAC  
 CACGCTGTCCAGGTCATGCCAAAGAGCCCTGATGAAATGAGGAAGTCTTCATCGACAGGCTAAGAAGA  
 TTGACACCATCTCCGAGCCTGCTTCCGCTAGCATTCTGATTTTAAACATTTCTACTGGGTTATCTA  
 TAAATCCTTAGGCATGAAGACATTCATCAGCAGCAAGACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1853\\_d03.zip](https://cdn.origene.com/chromatograms/ja1853_d03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_080438

**Insert Size:** 1443 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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_080438.2</a></u> , <u><a href="#">NP_536686.2</a></u>
<b>RefSeq Size:</b>	1474 bp
<b>RefSeq ORF:</b>	1443 bp
<b>Locus ID:</b>	110304
<b>UniProt ID:</b>	<u><a href="#">Q91XP5</a></u>
<b>Cytogenetics:</b>	8 29.69 cM
<b>Gene Summary:</b>	Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:15131310, PubMed:20978350). Channel characteristics depend on the subunit composition; heteropentameric channels display faster channel closure (By similarity). Plays an important role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents (PubMed:15131310). Contributes to increased pain perception in response to increased prostaglandin E2 levels (PubMed:15131310). Plays a role in the regulation of breathing rhythm, especially of the duration of the postinspiratory phase (PubMed:20978350). Plays a role in cellular responses to ethanol (By similarity).[UniProtKB/Swiss-Prot Function]