

## Product datasheet for **MC222422**

### **Gria3 (NM\_016886) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gria3 (NM_016886) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria3
Synonyms:	2900064I19Rik; Glu; GluA3; Glur; Glur-3; GluR-C; GluR-K3; Glur3; Gluralpha3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222422 representing NM\_016886  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCAAAGCGTGTCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGGGTCACTCTCACGGAGGAT  
 TCCCAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACGGTACAGGAGCACAGTGTCTTCCGCTT  
 TGCTGTGCAGTTATACAACCAACCAAGAACCACTGAGAAGCCCTTCATTTGAACTACCACGTAGAC  
 CACTTGGATTCTCCAATAGTTTTCTGTGACTAATGCTTTCTGCTCCAGTTCTCCAGAGGGGTATG  
 CTATCTTTGGATTCTATGACCAGATGTCAATGAACACACTGACCTCCTTCTGTGGGGCCCTGCATACATC  
 TTTCTGTCACACCTAGCTTTCCCACTGATGCCGATGTGCAGTTTGTTCATCCAGATGCGCCAGCCTTAAAG  
 GGTGCCATTCTGAGTCTTCTGGTTACTACAAGTGGGAGAAGTTGTGTACCTCTATGACACAGAACGAG  
 GGTTCATCCTGCAAGCAATTATGGAAGCAGCAGTGCAAAACAACCTGGCAAGTGACAGCAAGGTCTGT  
 GGGAAACATAAAGGACATCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA  
 TACTTGATTGACTGTGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTGTGATCCTGGGGAAACATT  
 CAAGAGGTTATCACTACATGCTTGTAACTGGGTTTTACTGACATTGTACTGGAAGAGTCATGCATGG  
 GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCAATGGTCCAGCAATTCATACAGCGC  
 TGGGTGAGACTGGATGAAAGGGAATTCCTGAAGCCAAGAATGCACCACTAAAGTATACATCTGCACTGA  
 CACACGACGCAACTACTGGTCATAGCAGAAGCCTCCGATACCTGAGGAGGCAGCGAGTGGATGTATCCCG  
 CAGAGGCAGTGTGGAGACTGCTTAGCAAACTCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA  
 GCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGAGTGGACAA  
 ATTATACCATTGATGTATATGAAATGAAAGTCTCAGGCTCTCGAAAAGCTGGTTACTGGAATGAGTATGA  
 AAGGTTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCCGAGAACAGGACCATCGTA  
 GTGACTACCATTCTGGAATCACCATATGTAAATGTAAAAAGAATCATGAGCAACTGGAAGGAAATGAGC  
 GCTATGAAGGCTATTGTGTGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC  
 CATTGTGCGGTGATGGGAAATATGGCGCAAGGGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA  
 CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTCACTATAACATTGGTCCGTGAAGAAGTCATAG  
 ATTTTTCAAAGCCATTTATGAGCCTGGGATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG  
 CGTATTTTCATTCTGGATCCTTTAGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC  
 AGTGTAGTTCTTCTCCTAGTCAGCAGATTTAGCCCTTATGAGTGGCACTTGAAGACAACATGAAGAAC  
 CTGCTGACCCACAAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCTT  
 GGGTGCTTTTATGCAGCAAGGATGTGATATTTCTCCAAGATCACTTTCTGGGCGCATTGTTGGAGGGTT  
 TGGTGGTCTTACCCTGATCATAATCTCTTCTACACTGCAAACCTTGCTGCTTTCTGACTGTGGAGA  
 GGATGGTGTCCCCATAGAGAGCGCTGAAGATTAGCCAAGCAGACTGAAATTGCATACGGGACCCTGGA  
 CTCTGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATGCTGTGTATGAGAAAATGTGGTCTTACATG  
 AAATCCGCAGAGCCATCTGTGTTTACAAAACAACAGCTGATGGGTAGCCCGAGTTCGGAAGTCCAAGG  
 GAAAGTTCGCCTTCTGCTGGAGTCAACCATGAATGAGTACATTGAGCAGAGAAAAGCCGTGTGATACGAT  
 GAAAGTTGGTGGAAATCTGGATTCAAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAACG  
 CCTGTAACCTTGCAGTATTGAAACTCAGTGAACAAGGCATCTTAGACAAGCTGAAAAACAATGGTGGT  
 ACGATAAGGGGGAATGTGGAGCCAAGGACTCCGGGAGTAAGGACAAGACCAGTGTCTAAGCCTGAGCAA  
 TGTGGCAGGCGTGTCTATATACTTGTGCGAGGTCTGGGCTGGCCATGATGGTGGCTTTGATAGAATTC  
 TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAGAACACCCAAAACCTTTAAGCCTGCTC  
 CTGCCACCAACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTAA  
 GATCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1792\\_f02.zip](https://cdn.origene.com/chromatograms/ja1792_f02.zip)

**Restriction Sites:** Sgfl-Mlul

<b>ACCN:</b>	NM_016886
<b>Insert Size:</b>	2667 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">BC086678</a> , <a href="#">AAH86678</a>
<b>RefSeq Size:</b>	5213 bp
<b>RefSeq ORF:</b>	2667 bp
<b>Locus ID:</b>	53623
<b>UniProt ID:</b>	<a href="#">Q9Z2W9</a>
<b>Cytogenetics:</b>	X 23.19 cM
<b>Gene Summary:</b>	<p>This gene encodes a multi-pass transmembrane protein that forms a homotetramer or heterotetramer in neuronal cells. The encoded protein is a ligand-gated ion channel that responds to the neurotransmitter L-glutamate to promote synaptic transmission. Deficiency of this gene leads to behavioral phenotypes. The transcript is subject to RNA editing at codon 769 (AGA-&gt;GGA; R-&gt;G). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (1) encodes isoform a. Both variants 1 and 2 encode isoform a.</p>