**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC229110

## Gria3 (NM_001290451) Mouse Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Gria3 (NM_001290451) 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:**

>MC229110 representing NM_001290451
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCAAAGCGTGCTCCGGGCGGTCTTCTTTTTAGTCCTGGGGCTTTTGGGTCATTCTCACGGAGGAT
TCCCCAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACGGTACAGGAGCACAGTGCTTTCCGCTT
TGCTGTGCAGTTATACAACACCAACCAGAACACCACTGAGAAGCCCTTCCATTTGAACTACCACGTAGAC
CACTTGGATTCCTCCAATAGTTTTTCTGTGACTAATGCTTTCTGCTCCCAGTTCTCCAGAGGGGTGTATG
CTATCTTTGGATTCTATGACCAGATGTCAATGAACACACTGACCTCCTTCTGTGGGGCCCTGCATACATC
TTTCGTCACACCTAGCTTTCCCACTGATGCCGATGTGCAGTTTGTCATCCAGATGCGCCCAGCCTTAAAG
GGTGCCATTCTGAGTCTTCTGGGTTACTACAAGTGGGAGAAGTTTGTGTACCTCTATGACACAGAACGAG
GGTTTTCCATCCTGCAAGCAATTATGGAAGCAGCAGTGCAAAACAACTGGCAAGTGACAGCAAGGTCTGT
GGGAAACATAAAGGACATCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA
TACTTGATTGACTGTGAAGTCGAAAGGATTAACACAATTTTGGAACAGGTTGTGATCCTGGGGAAACATT
CAAGAGGTTATCACTACATGCTTGCTAACCTGGGTTTTACTGACATTGTACTGGAAAGAGTCATGCATGG
GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCCAATGGTCCAGCAATTCATACAGCGC
TGGGTGAGACTGGATGAAAGGGAATTCCCTGAAGCCAAGAATGCACCACTAAAGTATACATCTGCACTGA
CACACGACGCAATACTGGTCATAGCAGAAGCCTTCCGATACCTGAGGAGGCAGCGAGTGGATGTATCCCG
CAGAGGCAGTGCTGGAGACTGCTTAGCAAATCCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA
GCTCTGAAAATGGTGCAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGACGTAGGACAA
ATTATACCATTGATGTATATGAAATGAAAGTCTCAGGCTCTCGAAAAGCTGGTTACTGGAATGAGTATGA
AAGGTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCCGAGAACAGGACCATCGTA
GTGACTACCATTCTGGAATCACCATATGTAATGTATAAAAAGAATCATGAGCAACTGGAAGGAAATGAGC
GCTATGAAGGCTATTGTGTCGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC
CATTGTCGGTGATGGGAAATATGGCGCAAGGGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA
CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTCACTATAACATTGGTCCGTGAAGAAGTCATAG
ATTTTTCAAAGCCATTTATGAGCCTGGGGATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG
CGTATTTTCATTCCTGGATCCTTTAGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC
AGTGTAGTTCTCTTCCTAGTCAGCAGATTTAGCCCTTATGAGTGGCACTTGGAAGACAACAATGAAGAAC
CTCGTGACCCACAAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCCTT
GGGTGCTTTTATGCAGCAAGGATGTGATATTTCTCCAAGATCACTTTCTGGGCGCATTGTTGGAGGGGTT
TGGTGGTTCTTCACCCTGATCATAATCTCTTCCTACACTGCAAACCTTGCTGCTTTCCTGACTGTGGAGA
GGATGGTGTCCCCCATAGAGAGCGCTGAAGATTTAGCCAAGCAGACTGAAATTGCATACGGGACCCTGGA
CTCTGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATTGCTGTGTATGAGAAAATGTGGTCTTACATG
AAATCCGCAGAGCCATCTGTGTTTACCAAAACAACAGCTGATGGGGTAGCCCGAGTTCGGAAGTCCAAGG
GAAAGTTCGCCTTCCTGCTGGAGTCAACCATGAATGAGTACATTGAGCAGAGAAAGCCGTGTGATACGAT
GAAAGTTGGTGGAAATCTGGATTCCAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAAAT
GCTGTTAACCTGGCAGTATTAAAACTGAATGAGCAAGGCCTCTTGGACAAATTGAAAAACAAATGGTGGT
ACGACAAAGGAGAGTGCGGCAGCGGGGGCGGTGACTCCAAGGACAAGACCAGTGCTCTAAGCCTGAGCAA
TGTGGCAGGCGTGTTCTATATACTTGTCGGAGGTCTGGGGCTGGCCATGATGGTGGCTTTGATAGAATTC
TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAAGAACACCCAAAACTTTAAGCCTGCTC
CTGCCACCAACACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTTAA
GATCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001290451

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|---|---|
| **Insert Size:** | 2667 bp |
| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001290451.1, NP_001277380.1 |
| **RefSeq Size:** | 2705 bp |
| **RefSeq ORF:** | 2667 bp |
| **Locus ID:** | 53623 |
| **Cytogenetics:** | X 23.19 cM |

**Gene Summary:** 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->GGA; R->G). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Transcript Variant: This variant (4) differs in the 5' and 3' UTRs and contains an alternate exon and lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (b) is the same length but has a different sequence than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.