

Product datasheet for **MC229109**

Gria3 (NM_001281929) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria3 (NM_001281929) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria3
Synonyms:	2900064I19Rik; Glu; GluA3; Glur; Glur-3; GluR-C; GluR-K3; Glur3; Gluralpha3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229109 representing NM_001281929
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAAAGCGTGTCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGGGTCAATCTCACGGAGGAT
 TCCCAAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACGGTACAGGAGCACAGTGTTCGGCTT
 TGCTGTGCAGTTATACAACCAACCAAGAACCACTGAGAAGCCCTTCATTTGAACTACCACGTAGAC
 CACTTGGATTCTCCAATAGTTTTCTGTGACTAATGCTTTCTGCTCCAGTTCTCCAGAGGGGTATG
 CTATCTTTGGATTCTATGACCAGATGTCAATGAACACACTGACCTCCTTCTGTGGGGCCCTGCATACATC
 TTTCTGTCACACCTAGCTTTCCCACTGATGCCGATGTGCAGTTTGTTCATCCAGATGCGCCAGCCTTAAAG
 GGTGCCATTCTGAGTCTTCTGGTTACTACAAGTGGGAGAAGTTGTGTACCTCTATGACACAGAACGAG
 GGTTTTCCATCCTGCAAGCAATTATGGAAGCAGCAGTGCAAAACAACCTGGCAAGTGACAGCAAGGTCTGT
 GGGAAACATAAAGGACATCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA
 TACTTGATTGACTGTGAAGTCAAGGATTAACACAATTTTGAACAGGTTGTGATCCTGGGGAAACATT
 CAAGAGGTTATCACTACATGCTTGTAACTGGGTTTTACTGACATTGTACTGGAAGAGTCATGCATGG
 GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCAATGGTCCAGCAATTCATACAGCGC
 TGGGTGAGACTGGATGAAAGGGAATTCCTGAAGCCAAGAATGCACCACTAAAGTATACATCTGCACTGA
 CACACGACGCAACTACTGGTCATAGCAGAAGCCTCCGATACCTGAGGAGGCAGCGAGTGGATGTATCCCG
 CAGAGGCAGTGTGGAGACTGCTTAGCAAACTCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA
 GCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGAGTGGACAA
 ATTATACCATTGATGTATATGAAATGAAAGTCTCAGGCTCTCGAAAAGCTGGTTACTGGAATGATGTA
 AAGGTTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCCGAGAACAGGACCATCGTA
 GTGACTACCATTCTGGAATCACCATATGTAAATGTAAAAAGAATCATGAGCAACTGGAAGGAAATGAGC
 GCTATGAAGGCTATTGTGTGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC
 CATTGTCCGGTATGGGAAATATGGCGCAAGGGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA
 CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTACTATAACATTGGTCCGTGAAGAAGTCATAG
 ATTTTTCAAAGCCATTTATGAGCCTGGGATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG
 CGTATTTTCACTTCTGGATCCTTTAGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC
 AGTGTAGTTCTTCTAGTCAGCAGATTTAGCCCTTATGAGTGGCACTTGAAGACAACATGAAGAAC
 CTGCTGACCCACAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCTT
 GGGTGCTTTTATGCAGCAAGGATGTGATATTTCTCCAAGATCACTTTCTGGGCGCATTGTTGGAGGGTT
 TGGTGGTCTTACCCTGATCATAATCTTCTACACTGCAAACCTTGCTGCTTTCCTGACTGTGGAGA
 GGATGGTGTCCCCATAGAGAGCGCTGAAGATTAGCCAAGCAGACTGAAATTGCATACGGGACCCTGGA
 CTCTGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATGCTGTGTATGAGAAAATGTGGTCTTACATG
 AAATCCGCAGAGCCATCTGTGTTTACAAAACAACAGCTGATGGGGTAGCCCGAGTTCGGAAGTCCAAGG
 GAAAGTTGCCTTCTGCTGGAGTCAACCATGAATGAGTACATTGAGCAGAGAAAAGCCGTGTGATACGAT
 GAAAGTTGGTGGAAATCTGGATTCCAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAACG
 CCTGTAACCTTGCAGTATTGAAACTCAGTGAACAAGGCATCTTAGACAAGCTGAAAAACAATGGTGGT
 ACGATAAGGGGGAATGTGGAGCCAAGGACTCCGGGAGTAAGGACAAGACCAGTGTCTAAGCCTGAGCAA
 TGTGGCAGGCGTGTCTATATACTTGTCCGAGGTCTGGGGCTGGCCATGATGGTGGCTTTGATAGAATTC
 TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAGAACACCCAAAACCTTTAAGCCTGCTC
 CTGCCACCAACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTAA
 GATCTAG

ACGGCTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001281929

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:	<ol style="list-style-type: none">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:	<u>NM_001281929.1</u> , <u>NP_001268858.1</u>
RefSeq Size:	5224 bp
RefSeq ORF:	2667 bp
Locus ID:	53623
UniProt ID:	<u>Q9Z2W9</u>
Cytogenetics:	X 23.19 cM
Gene Summary:	<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->GGA; R->G). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 3' UTR, compared to variant 1. Both variants 1 and 2 encode isoform a.</p>