

Product datasheet for **MC222368**

Gria2 (NM_001083806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria2 (NM_001083806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria2
Synonyms:	Glu; GluA2; GluR; Glur-2; GluR-B; gluR-K2; Glur2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222368 representing NM_001083806
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAAAAGATTATGCATATTTCTGTCCTCTTTCTCCTGTTTTATGGGACTGATTTTTGGTGTCTCTT
 CTAAACAGCATACAGATAGGGGGCTATTTCCAAGGGCGCTGATCAAGAATACAGTGCATTTCCGGTAGG
 GATGGTTCAGTTTTCCACTTCGGAGTTCAGACTGACACCCCATATCGACAATTTGGAGGTAGCCAACAGT
 TTCGCAGTCACCAATGCTTTCTGCTCCCAGTTTTCAAGAGGCGTCTATGCGATTTTTGGTTTTACGACA
 AGAAGTCTGTAATACCATCACATCATTCTGTGGGACTGTCATGTATCCTTCATCACACCAAGCTTCCC
 AACAGATGGCAGCATCCATTTGTCATCCAGATGCGACCTGACCTCAAAGGAGCACTCCTTAGCTTGATT
 GAGTACTACCAATGGGATAAGTTCGCATACCTCTATGACAGTACAGAGGCTTATCAACTGCAAGCTG
 TGCTGGATTCTGCTCGGAGAAGAAGTGGCAGGTGACTGCTATCAATGTGGGAACATTAACAATGACAA
 GAAAGATGAGACCTACAGATCACTTTCAAGATCTGGAGTTAAAAAAGAACGGCGTGAATCCTTGAC
 TGGCAAAGGGATAAAGTCAATGACATTGTGGACAGGTTATTACCATTTGAAAGCATGTTAAAGGGTACC
 ATTATATCATTGCAAATCTGGGATTTACTGATGGAGACCTGCTGAAAATTCAGTTTGGAGGAGCAATGT
 CTCTGGATTTAGATTGTAGACTACGACGACTCCCTGGTGTCTAAATTTATAGAAAGATGGTCAACACTC
 GAAGAGAAAGAATACCCTGGAGCACACACAGCGACAATTAAGTATACTTCGGCCCTGACTTATGATGCTG
 TCCAAGTGATGACTGAAGCATTCCGCAATCTTCGGAAGCAGAGGATTGAAATCTCCAGGAGAGGAAATGC
 AGGAGATTGTTGGCCAACCCAGCTGTGCCTTGGGACAAGGCGTGGAAATAGAAAGGCCCTCAAGCAG
 GTTCAAGTTGAAGTCTCTCTGGAAATATAAAATTTGACCAGAACGAAAAACGAATAAATACACAATTA
 ACATCATGGAGCTCAAAACAAATGGACCCCGAAGATTGGGTACTGGAGTGAAGTGGATAAAATGTTGT
 CACCCTAACCGAGCTCCCTCTGGAAATGACACATCTGGGCTTGAACAAAACTGTGGTTGTCACCACA
 ATATTGGAATCTCCATATGTTATGATGAAGAAAAATCATGAAATGCTTGAAGGAATGAGCGTTATGAGG
 GCTACTGTGTTGACTTAGCTGCAGAAATGGCAAACATTGTGGATTCAAGTACAAGCTGACTATTGTTGG
 GGATGGCAAGTATGGGGCCAGGGATGCAGACACCAAAATTTGGAATGGTATGGTTGGAGAAGTTGTATAT
 GGGAAAGCTGATATTGCCATTGCTCCATTAACATCACTCTCGTGAGAGAAGAGGTGATTGACTTCTCGA
 AGCCATTCATGAGCCTTGAATCTCTATCATGATCAAGAAGCCTCAGAAGTCAAACAGGAGTGTTC
 CTTTCTTGATCCTTAGCCTATGAGATCTGGATGTGCATTGTGTTTGCCTACATTGGGGTCAAGTGTAGTT
 TTATTCCTGGTCAAGCAGATTTAGCCCTACGAGTGGCACACTGAGGAATTTGAAGATGGAAGAGAAACAC
 AAAGTAGTGAATCAACTAATGAATTTGGGATTTTTAATAGTCTCTGGTTTTCTTGGGTGCCTTTATGCG
 GCAAGGATGCGATATTTGCGCAAGATCTCTCTCTGGGCGCATTGTTGGAGGTGTGTGGTGGTTCTTTACC
 CTCATCATCATCTCCTCTACACGGCTAACTTAGCTGCCTTCTGACTGTAGAGAGGATGGTGTGCGCCA
 TCGAAAGTGTGAGGATCTGTCTAAGCAACAGAAATGCTTATGGAACATTAGACTCTGGCTCCACTAA
 AGAGTTTTTTCAGGAGATCTAAAATTGCAGTGTGATAAAATGTGGACTTATATGAGGAGTGCAGAGCCC
 TCTGTGTTGTGAGGACTACGGCAGAAGGAGTAGCCAGAGTCAGGAAATCCAAAGGGAAGTATGCCTACT
 TGCTGGAGTCCACAATGAATGAGTACATCGAGCAGAGGAAGCCTTGGCACACCATGAAAGTGGGCGCAA
 CCTGGATTCCAAAGGCTACGGCATCGCCACACCTAAAGGATCCTCATTAAAGAACCCAGTAAATCTTGCA
 GTATTGAAACTCAGTGAAGCAAGGCGCTTAGACAAGCTGAAAAACAATGGTGGTACGATAAAGGTGAAT
 GTGGAGCCAAGGACTCGGGAAGTAAAGAAAAGACCAGTGCCTCAGTCTGAGCAACGTTGCTGGAGTATT
 CTACATCCTTGTGCGGGGCCCTGGTTGGCAATGCTGGTGGCTTTGATTGAGTTCTGTTACAAGTCAAGG
 GCCGAGGCGAAACGAATGAAGGTGGCAAAGAATGCACAGAATATAACCCATCTTCTCGCAGAATTCCC
 AGAATTTTGAACCTATAAGGAAGGTTACAACGTATATGGCATCGAGAGTGTAAATTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001083806
Insert Size: 2652 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).
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:	NM_001083806.1 , NP_001077275.1
RefSeq Size:	6841 bp
RefSeq ORF:	2652 bp
Locus ID:	14800
Cytogenetics:	3 35.5 cM
Gene Summary:	<p>Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, Gria1-4. The subunit encoded by this gene (Gria2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes isoform 1 (also known as the flip isoform). RNA editing (CAG->CGG) changes Gln607Arg. 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.</p>