

Product datasheet for **MC218174**

Gria2 (BC048248) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria2 (BC048248) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria2
Synonyms:	GluR-B, short form
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC048248
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAAAAGATTATGCATATTTCTGTCCTCTTTCTCCTGTTTTATGGGACTGATTTTTGGTGTCTCTT
 CTAAACAGCATACAGATAGGGGGCTATTTCCAAGGGGCGCTGATCAAGAATACAGTGCATTTCCGGTAGG
 GATGGTTCAGTTTTCCACTTCGGAGTTCAGACTGACACCCCATATCGACAATTTGGAGGTAGCCAACAGT
 TTCGCAGTCACCAATGCTTTCTGCTCCCAGTTTTCAAGAGGCGTCTATGCGATTTTTGGTTTTACGACA
 AGAAGTCTGTAATACCATCACATCATTCTGTGGGACTGCATGTATCCTTCATCACACCAAGCTTCCC
 AACAGATGGCAGCATCCATTTGTCATCCAGATGCGACCTGACCTCAAAGGAGCACTCCTTAGCTTGATT
 GAGTACTACCAATGGGATAAGTTCGCATACCTCTATGACAGTACAGAGGCTTATCAACTGCAAGCTG
 TGCTGGATTCTGCTGCGGAGAAGAAGTGGCAGGTGACTGCTATCAATGTGGGAACATTAACAATGACAA
 GAAAGATGAGACCTACAGATCACTCTTTCAAGATCTGGAGTTAAAAAAGAACGGCGTGAATCCTTGAC
 TGGCAAAGGGATAAAGTCAATGACATTGTGGACCAGGTTATTACCATTGGAAGCATGTTAAAGGGTACC
 ATTATATCATTGCAAATCTGGGATTTACTGATGGAGACCTGCTGAAAATTCAGTTTGGAGGAGCAAATGT
 CTCTGGATTTAGATTGTAGACTACGACGACTCCCTGGTGTCTAAATTTATAGAAAGATGGTCAACACTC
 GAAGAGAAAGAATACCCTGGAGCACACAGCGACAATTAAGTATACTTCGGCCCTGACTTATGATGCTG
 TCCAAGTGATGACTGAAGCATTCCGCAATCTTCGGAAGCAGAGGATTGAAATCTCCAGGAGAGGAAATGC
 AGGAGATTGTTGGCCAACCCAGCTGTGCCTTGGGGACAAGGCGTGAAATAGAAAGGGCCCTCAAGCAG
 GTTCAAGTTGAAGTCTCTCTGGAAATATAAAATTTGACCAGAACGAAAAACGAATAAACTACACAATTA
 ACATCATGGAGCTCAAAACAAATGGACCCCGAAGATTGGGTACTGGAGTGAAGTGGATAAAATGGTTGT
 CACCCTAACCGAGCTCCCTCTGGAAATGACACATCTGGGCTTGAACAAAACTGTGGTTGTCACCACA
 ATATTGGAATCTCCATATGTTATGATGAAGAAAAATCATGAAATGCTTGAAGGGAATGAGCGTTATGAGG
 GCTACTGTGTTGACTTAGCTGCAGAAATGGCCAAACATTGTGGATTCAAGTACAAGCTGACTATTGTTGG
 GGATGGCAAGTATGGGGCCAGGGATGCAGACACCAAAATTTGGAATGGTATGGTTGGAGAACTTGATAT
 GGGGTAAGTTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC048248

Insert Size: 1485 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:

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: [BC048248](#), [AAH48248](#)

RefSeq Size: 4799 bp

RefSeq ORF: 1484 bp

Locus ID: 14800

Cytogenetics: 3 35.5 cM

Gene Summary: 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]