

## Product datasheet for **MC222462**

### **Gria4 (NM\_019691) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_019691) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria4
Synonyms:	Glu; GluA4; Glur; Glur-4; GluR-D; Glur4; Gluralpha4; spk; spkw1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222462 representing NM\_019691  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGATTATTTGCAGGCAGATTGTCTTGTGTTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC  
 CGAGCAGCGTTCAAATAGGTGGTCTCTTTATCCGAAACACAGACCAGGAATACACTGCTTTTCGGCTAGC  
 TATCTTTCTTCATAACACCAGCCCAATGCATCTGAAGCCCTTTCAATTTGGTACCTCATGTGGACAAC  
 ATTGAGACTGCCAACAGTTTTGTGTGACAAATGCATTCTGTTCCAGTATTCTAGAGGGGTGTTTGCCA  
 TTTTTGGACTCTATGACAAGAGGTCAGTGCATACCTTGACCTCCTTCTGCAGTGCCTGCACATCTCTCT  
 CATCACACCAAGCTTCCCCTACTGAAGGAGAGAGCCAGTTCGTGCTTCAGCTAAGACCTTCATTGAGAGGT  
 GCACTCCTGAGCCTCCTGGATCACTATGAATGGAATTGTTTTGTCTTCTGTATGATACAGACAGGGGT  
 ATCAATACTTCAAGCTATAATGAAAAAGCAGGACAGAATGGATGGCATGTCAGTGCATATGTGTGGA  
 AAATTTAACGATGTCAGCTACAGGCACTACTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTA  
 ATAGATTGTGAGATAGAAAGGCTTCAAACATATTAGAACAATTTGTGAGTGTGGGAAGCACGTCAAAG  
 GCTACCATTATATCATCGCAAATTTGGGTTTCAAAGATATTTCTCTTGAGAGATTTATACATGGAGGAGC  
 AAATGTCACTGGATTCCAGTTAGTAGATTTAATACGCCCATGGTACGAAACTAATGGATCGTGGAAG  
 AAAGTAGTCAACGAGAAATCCAGGATCTGAAACACCTCCAAAGTACACTTCTGCTCTCACTTACGATG  
 GTGTCTTGGTAATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAAATGATATTTCAAGGAGAGGAAA  
 TGCCGGGATGTCTGGCAAACCTGCTGCTCCCTGGGCCAGGGAAATGACATGGAGAGAACACTGAAG  
 CAGGTTCAAGTCAAGGACTGACTGGGAATGTTCAATTTGACCACTATGGACGTAGAGTTAATTACAAA  
 TGGATGTGTTGAATTAAGAACACAGGACCTCGAAAGTTGGCTATTGGAACGATATGGATAAATAGT  
 CTGATTCAAGATGCGCCTACTCTTGGCAATGACACAGCAGCTATCGAGAACAGAACAGTGGTTGTAAAC  
 ACAATTATGGAATCCCCCTACGTTATGTACAAGAAAAATCATGAAATGTTTGAAGGAAATGACAAGTATG  
 AAGGCTACTGTAGACTTGGCATCTGAAATGCGAAACATATCGGTATCAAATATAAAATGCCATTGT  
 CCCTGATGGAAAAATGGAGCAAGGATGCGGACACCAAATTTGGAATGGGATGGTAGGAGAGCTTGTG  
 TATGGGAAAGCAGAGATTGCCATTGCACCTCTGACAATCACGTTGGTGGCAGAGGAGGTCATCGACTTTT  
 CTAAGCCTTTTATGAGTTTAGGCATCTCTATCATGATCAAAAAACCTCAGAAATCAAACCAGGAGTGT  
 TTCCTTCTTGACCCTCTGGCCTATGAGATCTGGATGTGCATAGTGTTCATACATTGGTGTGAGCGT  
 GTCTTGTCTTAGTCAAGTTTAGCCATATGAGTGGCACACAGAAGGCCTGAGGATGGAAAAGAAG  
 GACCCAGTGACCAACCTCCAATGAGTTTGGCATCTTTAACAGCCTCTGGTTTTCCCTGGGTGCCTTTAT  
 GCAACAAGGATGTGACATTTACCCAGATCCCTGTCCGGTCCGATTGTTGGAGGCGTATGGTGGTCTTC  
 ACTCTCATCATTATCTCATCCTACACTGCTAATCTGGCTGCATTCTGACAGTGGAGAGAATGGTCTCCC  
 CCATAGAAAGTGCAGAAGACCTGGCCAAACAAACAGAAATGGCTATGGAACACTTGATTCGGGATCAAC  
 AAAAGAATTTCTCAGAAGATCAAAAATAGCAGTATATGAAAAGATGTGGACCTACATGCGATCGGCAGAG  
 CCATCTGTGTTCACTAGAACTACAGCTGAGGGCGTGGCCCGTGTCCGCAAGTCCAAGGGCAAATTTGCCT  
 TCCTCTGGAGTCCAGATGAATGAATACATTGAGCAGCGAAAGCCCTGTGACACGATGAAAGTGGGAGG  
 AAACCTGGATTTCAAAGGCTATGGTGTAGCGACGCCCAAGGGTTCCTCATTAGGAACTCCTGTAACCTT  
 GCCGTTTTGAAACTCAGTGAGGCAGGCGTCTTAGACAAGCTGAAAAACAATGGTGGTACGATAAAGGTG  
 AATGTGGACCAAGGACTCGGGAAGCAAGGACAAGACGAGTGCCTTGAGCCTGAGCAACGTAGCAGGCGT  
 CTTCTACATTCTGGTTGGCGCTTGGGCTTGGCAATGCTGGTGGCTTTGATAGAGTTCTGTTACAAGTCC  
 AGGGCAGAGGCGAAGAGAATGAAGCTGACTTTTTCCGAAGCCATAAGAAACAAAGCCAGGTTATCCATCA  
 CTGGGAGTGTGGGAGAAAACGGCCGTGTGCTGACCCCGACTGCCCAAGGCGTACACACAGGAACTGC  
 GATTAGACAGAGCTCGGGATTGGCTGTCATTGCATCGGACCTACCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_019691

<b>Insert Size:</b>	2709 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_019691.4</a></u> , <u><a href="#">NP_062665.3</a></u>
<b>RefSeq Size:</b>	5458 bp
<b>RefSeq ORF:</b>	2709 bp
<b>Locus ID:</b>	14802
<b>UniProt ID:</b>	<u><a href="#">Q9Z2W8</a></u>
<b>Cytogenetics:</b>	9 2.46 cM
<b>Gene Summary:</b>	<p>Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA-&gt;GGA; R-&gt;G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes isoform 1 (also known as flip isoform). RNA editing (AGA-&gt;GGA) changes Arg765Gly.</p>