

## Product datasheet for **MC229024**

### **Gria1 (NM\_001252403) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gria1 (NM_001252403) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria1
Synonyms:	2900051M01Rik; Glr-1; Glr1; GluA1; Glur-1; GluR-A; gluR-K1; Glur1; GluRA; HIPA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229024 representing NM\_001252403  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTACCGATTCTGTTCCAGTTCTCCAAAGGAGTGTACGCCATCTTTGGATTTTATGAACGAAGGA  
 CTGTCAACATGCTGACCTCCTTCTGTGGGGCCCTCCATGTGTGCTTCATCACTCCAAGTTTTCCCGTTGA  
 CACATCCAATCAGTTTGTCTTACGCTGCGCCCGAACTACAGGAAGCTCTCATTAGCATTATCGACCAT  
 TACAAGTGGCAGACTTTTGTCTACATTTATGATGCTGACCGGGCCTGTGAGTCTGCAGAGAGTCTTGG  
 ATACAGCCCGGAGAAGAACTGGCAGGTGACGGCTGTCAACATTCTAACCAACCAGGAGGAAGGATACCG  
 GATGCTCTTTGAGACCTGGAGAAGAAAAGGAGAGGCTGGTGGTGGTGGACTGTGAATCAGAACGCCTC  
 AACGCCATCTGGCCAGATTGTGAAGCTAGAAAAGAACGGCATCGGGTACCACTACATCCTCGCCAACC  
 TGGGCTTCATGGACATTGACTTAAATAAGTTCAAGGAGAGTGGAGCCAATGTGACAGTTTCCAAGTGGT  
 GAACTACACAGACACGATCCCAGCCAGAATCATGCAGCAGTGGAGACAAGTACGCTCGGGACCACACC  
 AGGGTGGACTGGAAGAGGCCAAAGTACACTTCTGCTCTTACCTATGATGGTGTGAAGGTGATGGCGGAGG  
 CCTTCCAGAGCCTGCGGAGGCAGAGGATTGACATATCCCGGCGAGGGAATGCTGGGGACTGTCTGGCTAA  
 CCCAGCTGTGCCCTGGGGCCAAGGGATCGACATCCAGAGAGCCCTGCAGCAGGTGCGCTTTGAAGTTTG  
 ACAGGAAATGTGCAGTTTAAACGAGAAAGGGCGCCGACCAACTACACCCTCCATGTGATCGAAATGAAGC  
 ATGATGGAATCCGCAAGATTGGTTACTGGAATGAAGATGATAAATTTGCCCGCAGCCACGGACGCTCA  
 GGCTGGAGGGGACAACCTAAGCGTCCAGAATAGAACCTACATCGTCACGACTATCCTCGAAGATCCTTAC  
 GTGATGCTTAAAAAGAAATGCCAACCAATTTGAAGGCAATGACCGCTATGAGGGCTACTGCGTGAAGTGG  
 CTGCGGAGATCGCAAGCAGTGGGCTATTCCTACCGACTTGAGATTGTCAGCAGCGCAAAACGAGGAGC  
 CCGGGATCCTGACACAAAAGCCCTGGAATGGCATGGTGGGAGAGCTAGTCTATGGAAGAGCAGATGTGGCG  
 GTGGCCCCCTTGACCATAACCTTGGTCCGGGAGGAAGTATCGACTTCTCCAAGCCATTCATGAGTTTGG  
 GAATCTCCATTATGATTAAGAAGCCACAGAAGTCCAAGCCAGGTGCTTCTCCTTTCTTGACCCCTTGGC  
 CTACGAGATCTGGATGTGTATAGTGTTCCTACATTGGAGTGAGCGTCGCTCTTCTGGTCAGCCGT  
 TTCAGTCTTATGAATGGCACAGTGAAGAGTTTGAAGAAGGACGAGATCAGACAACCAGTGACCAGTCAA  
 ATGAGTTTGGCATATTCAACAGCCTGTGGTTCTCGCTGGGGCCCTCATGCAGCAAGGATGTGACATTTCC  
 CCCCAGGTCCTGTCTGGACGCATCGTCGGCGGTGTCTGGTGGTCTTCACTTTGATTATCATCTCCTCA  
 TACACAGCCAACCTGGCTGCCTTCTGACTGTGAAAAGGATGGTGTCTCCATCGAGAGTGCAGAGGACC  
 TGGCAAAGCAGACGGAATTGCTTATGGGACATTGGAAGCAGGATCCACTAAGGAGTTCTTCAGGAGGTC  
 TAAAATCGCTGTGTTTGAAGAAGTGTGGACATACATGAAGTCTGCAGAACCCTGTGTGTTTGTTCGGACC  
 ACAGAGGAGGGCATGATCAGAGTGAGAAAGTCTAAAGGCAAAATATGCCTACCTCCTGGAGTCCACCATGA  
 ATGAGTACATTGAGCAACGCAAGCCCTGTGACACCATGAAAGTGGGAGGTAACCTGGATTCCAAAGGCTA  
 TGGCATTGCAACACCCAAGGGTCCGCCCTGAGAGGTCCCGTAAACCTAGCGTTTTGAAACTCAGTGAG  
 CAAGGCGTCTTAGACAAGCTGAAAAGCAAATGGTGGTACGATAAAGGGGAATGTGGAAGCAAGGACTCCG  
 GAAGTAAGGACAAGACCAGTGTCTGAGCCTGAGCAATGTGGCAGGCGTGTCTACATCCTGATTGGAGG  
 GCTGGGATTGGCCATGCTGGTTGCCTTAAATCGAGTTCTGCTACAAATCCCGTAGCGAGTCAAGCGGGATG  
 AAGGGTTTCTGTTTATTCCACAGCAATCCATCAATGAAGCCATACGGACATCGACCCTCCCAGGAACA  
 GCGGGGCAGGAGCCAGCGGAGGAAGTGGCAGTGGAGAGAATGGCAGAGTGGTACGCCAGGACTTCCCAA  
 GTCATGCAATCCATTCCCTGCATGAGCCACAGTTCAGGGATGCCCTTGGGAGCCACAGGATTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001252403  
**Insert Size:** 2517 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001252403.1, NP_001239332.1</u>
<b>RefSeq Size:</b>	5382 bp
<b>RefSeq ORF:</b>	2517 bp
<b>Locus ID:</b>	14799
<b>Cytogenetics:</b>	11 34.51 cM
<b>Gene Summary:</b>	<p>Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses a downstream, in-frame start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. 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>