

## Product datasheet for **RN200372**

### Gria4 (NM\_001113185) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gria4 (NM\_001113185) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gria4  
**Synonyms:** GluA4; GluR-D; GluR4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN200372 representing NM\_001113185  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGATTATTTGCAGGCAGATTGCTTGTGTTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC  
CAAGCAGCGTTCAAATAGGTGGTCTCTTCATCCGAAACACAGACCAGGAATACACTGCTTTTAGACTGGC  
AATCTTTCTTCATAACACCAGCCCAATGCATCGGAAGCTCCTTCAATTTGGTACCTCATGTGGACAAC  
ATTGAGACTGCCAACAGTTTTGCTGTGACAAACGCTTCTGTTCCAGTATTCTAGAGGGGTGTTTGCCA  
TTTTTGGACTCTATGACAAGAGATCCGTGCATACCTTGACCTCGTTCTGCAGTGCTCTGCACATCTCTCT  
CATCACACCAAGCTTTCCCACTGAAGGGGAGAGCCAGTTTGTGCTGCAGCTAAGACCTTCACTGAGAGGT  
GCACTCCTGAGCCTCCTGGATCACTATGAGTGGAACTGTTTCGTCTTCTGTATGATACAGACAGGGGT  
ATTCAATACTTCAAGCTATAATGGAAAAAGCAGGACAAAATGGATGGCATGTCAGTGCAATATGTGTGGA  
AAATTTAATGATGTCAGCTACAGGCAACTGCTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTG  
ATAGATTGTGAGATAGAGAGGCTTCAAACATTTAGAACAAATGTGAGTGTGGGAAGCATGTCAAAG  
GCTACCATATATCATCGCAAATTTGGGTTTCAAGGATATTTCTCTTGAGAGATTATACATGGAGGAGC  
AAATGTAACAGGATTCAGTTGGTAGATTTAATACCCATGGTAACCAACTAATGGATCGGTGGAAAG  
AAACTAGATCAGAGAGAATATCCAGTTCTGAAACACCTCAAAGTACACCTCTGCTCTCACTTATGATG  
GAGTCTGGTGATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA  
TGCTGGGGACTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGGACACTGAAG  
CAGGTTCGAATTCAGGGCTGACTGGGAATGTTCAATTTGACCATTATGGACGTAGAGTTAATTACACAA  
TGGATGTGTTGAACTGAAAAGCACAGGACCTCGAAAGGTTGGCTACTGGAATGATATGGATAAATTAGT  
CTTGATTCAAGATATGCCTACTCTTGCAATGACACAGCAGCTATTGAGAACAGAACAGTGGTTGAACC  
ACAATTATGCCTCTGATGAAGAATCCTATTTAAGAAAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001113185
<b>Insert Size:</b>	1302 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_001113185.1</a></u> , <u><a href="#">NP_001106656.1</a></u>
<b>RefSeq Size:</b>	2966 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	29629
<b>Cytogenetics:</b>	8q11
<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 (3) is missing several coding exons at the 3' end, and contains a novel 3' terminal exon compared to transcript variant 1. This results in a shorter isoform (3) with a different C-terminus compared to isoform 1.</p>