

Product datasheet for **RN200371**

Gria4 (NM_017263) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_017263) 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



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Fully Sequenced ORF: >RN200371 representing NM_017263
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGATTATTTGCAGGCAGATTGTCTTGTGTTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC
 CAAGCAGCGTTCAAATAGGTGGTCTCTTCATCCGAAACACAGACCAGGAATACACTGCTTTTAGACTGGC
 AATCTTTCTTCATAACACCAGCCCAATGCATCGGAAGCTCCTTTCAATTTGGTACCTCATGTGGACAAC
 ATTGAGACTGCCAACAGTTTTGTGTGACAAACGCCTTCTGTTCCAGTATTCTAGAGGGGTGTTTGCCA
 TTTTGGACTCTATGACAAGAGATCCGTGCATACCTTGACCTCGTTCTGCAGTGTCTGCACATCTCTCT
 CATCACACCAAGCTTTCCACTGAAGGGGAGAGCCAGTTGTGCTGCAGCTAAGACCTTCACTGAGAGGT
 GCACTCCTGAGCCTCTGGATCACTATGAGTGGAACTGTTTCGTCTTCTGTATGATACAGACAGGGGT
 ATCAATACTTCAAGCTATAATGAAAAAGCAGGACAAAATGGATGGCATGTCAGTGCAATATGTGTGGA
 AAATTTAATGATGTCAGCTACAGGCAACTGCTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTG
 ATAGATTGTGAGATAGAGAGGCTTCAAACATTTTAGAACAATTTGTGAGTGTGGGAAGCATGTCAAAG
 GCTACCATTATATCATCGCAAATTTGGGTTTCAAGGATATTTCTCTTGAGAGATTATACATGGAGGAGC
 AAATGTAACAGGATCCAGTTGGTAGATTTAATACCCCATGGTAACCAAATAATGGATCGGTGGGAAG
 AAAGTAGATCAGAGAGAAATCCAGGTTCTGAAACACCTCAAAGTACACCTCTGCTCTCACTTATGATG
 GAGTCTGGTGATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA
 TGCTGGGACTGTCTGGCAAACCTGCTGCTCCCTGGGCCAGGGAATTGACATGGAGAGGACACTGAAG
 CAGGTTCAAGTTCAAGGGCTGACTGGGAATGTTCAATTTGACCATTATGGACGTAGAGTTAATTACAAA
 TGGATGTGTTGAACTGAAAAGCACAGGACCTCGAAAGTTGGCTACTGGAATGATATGGATAAATTAGT
 CTTGATCAAGATATGCCTACTCTTGGCAATGACACAGCAGCTATTGAGAACAGAACAGTGGTTGTAAAC
 ACAATTATGGAATCTCCCTATGTTATGTACAAGAAAAATCATGAAATGTTTGAAGGAAATGACAAGTACG
 AAGGCTACTGTAGATCTGGCATCGGAAATGCAAAACATATTGGTATCAAATAAAAATTGCCATTGT
 TCCTGATGGAAAATATGGAGCAAGGGACGCAGACACTAAGATCTGGAATGGGATGGTAGGAGAGCTGTG
 TATGGGAAAGCAGAGATTGCTATTGCCCTCTGACAATCACATTGGTTCGAGAGGAAGTCATCGATTTTT
 CTAAGCCTTTTATGAGTTTAGGCATCTCTATCATGATCAAAAAACCTCAGAAATCAAACCAGGAGTCTT
 TTCCTTCTTGACCCTCTGGCCTATGAGATCTGGATGTGCATAGTGTTCATACATTGGTGTCAAGTGTG
 GTCTTGTCTTAGTCAGTAGGTTTAGCCATATGAGTGGCACACAGAAGAACCTGAGGATGGGAAGGAAG
 GACCCAGTGACAGCCTCCAATGAATTTGGCATCTTAAACAGCCTTTGGTTTTCCCTGGGTGCCTTTAT
 GCAACAAGGATGTGACATTTACCCAGATCCCTGTGAGGTCGGATTGTTGGAGGCGTGTGGTGGTCTTC
 ACACTCATCATTATATCGTCTACACTGCTAATCTGGCTGCATTCCTTACTGTGGAGAGAATGGTCTCCC
 CCATAGAAAGTGAGAAGACCTGGCCAAACAAACAGAAATGGCTATGGAACACTTGATTCTGGGTCAAC
 AAAAGAATTTCTCAGAAGATCAAAAATAGCAGTGTATGAAAAGATGTGGACCTACATGCGATCGGCAGAG
 CCGTCTGTGTTCACTAGAAGTACAGCTGAGGGCGTGGCTCGTGTCCGCAAGTCCAAGGGCAAATTTGCCT
 TTCTCTGGAGTCCAGATGAATGAATACATTGAGCAGCGAAAGCCCTGTGACACGATGAAAGTGGGAGG
 AAACCTGGATTTCAAAGGCTATGGTGTAGCAACGCCCAAGGTTCTCATTAAAGAACTCCTGTAACCTT
 GCCGTTTTGAAACTCAGTGAGGCAGGCGTCTTAGACAAGCTGAAAAACAATGGTGTACGATAAAGGTG
 AATGTGGACCAAGGACTCGGGAAGCAAGGACAAGACGAGTGCCTTGAGCCTGAGCAACGTAGCAGGCGT
 CTTCTACATTCTGGTTGGCGCCTGGGCTTGGCAATGCTGGTGGCTTTGATAGAGTTCTGTTACAAGTCC
 AGGGCAGAGGCGAAGAGAATGAAGCTGACTTTTTCCGAAGCCATAAGAAACAAAGCCAGGTTATCCATCA
 CTGGGAGTGTGGGAGAAAACGGCCGTGTGCTGACCCTGACTGCCCAAGGCCGTACACACAGGAACTGC
 AATTAGACAAAGTTCGGGATTGGCTGTCTTGCATCGGACCTACCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_017263

Insert Size:	2709 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_017263.2 , NP_058959.2
RefSeq Size:	4141 bp
RefSeq ORF:	2709 bp
Locus ID:	29629
UniProt ID:	P19493
Cytogenetics:	8q11
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. 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->GGA; R->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->GGA) changes Arg765Gly.</p>