

Product datasheet for **RN217303**

Gria3 (NM_001112742) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria3 (NM_001112742) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gria3
Synonyms:	GluA3; GluR-3; GluR-C; GluR-K3; GLUR3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217303 representing NM_00112742
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAAAGCGTGTCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGGGTCAATCTCACGGAGGAT
 TCCCAAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACGGTTCAGGAGCAGACGGCTTTCCGCTT
 TGCTGTGCAGTTATACAACCAACCAAGAACCACTGAGAAGCCCTTCATTTGAATTACCACGTAGAC
 CACTTGGATTCTCCAATAGTTTTCTGTGACTAATGCTTTCTGCTCCAGTTCTCCAGAGGGGTATG
 CTATCTTTGGATTCTATGACCAGATGTCAATGAACACCCTGACCTCCTTCTGTGGGGCCCTGCACACATC
 TTTTGTACACCTAGCTTTCCCACTGATGCAGATGTGCAGTTTGTATCCAGATGCGCCAGCCTTGAAG
 GGTGCCATTCTGAGTCTTCTCGTTACTACAAGTGGGAGAAGTTGTGTACCTCTATGACACAGAACGAG
 GGTCTTCTGTCTACAAGCAATTATGGAGGCAGCAGTGCAAAACAACCTGGCAAGTGACAGCAAGGTCTGT
 GGGAAACATAAAGGACGTCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA
 TACTTGATTGACTGTGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTGTGATCCTGGGGAAGCATT
 CAAGAGGCTATCACTACATGCTTGTAACTGGGTTTTACTGACATTTTACTGGAAGAGTCATGCATGG
 GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCAATGGTTTCAGCAGTTCATACAGCGC
 TGGGTGAGACTGGATGAAAGGGAATTCCTGAAGCCAAGAATGCACCACTGAAGTATACATCTGCGCTGA
 CACATGACGCAATATTGGTCATAGCAGAAGCCTCCGATACCTGAGGAGACAGAGAGTGGATGTCTCCCG
 CAGAGGCAGTGTGGAGACTGCTTAGCAAACTCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA
 GCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGAGTGGACAA
 ATTATACCATTGATGTCTATGAAATGAAAGTCTCGGGTTCTCGAAAAGCTGTTACTGGAACGAATATGA
 AAGGTTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCAGAGAACCGGACCATTGTA
 GTGACTACCATTCTGGAATCACCATATGTGATGTATAAAAAGAATCATGAGCAGCTGGAAGGAAATGAGC
 GCTATGAAGGCTACTGTGTTGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC
 CATTGTGCGGTGATGGGAAATATGGCGCCAGAGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA
 CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTACTATAACATTGGTCCGTGAAGAAGTCATAG
 ATTTCTCAAAGCCATTTATGAGCCTGGGAATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG
 CGTCTTTTCACTTCTGGATCCTTTGGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC
 AGTGTAGTTCTTCTCCTAGTCAGCAGATTTAGCCCTTATGAATGGCACTTGAAGACAACAATGAAGAAC
 CTCGTGACCCACAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCTT
 GGGTGCTTTCATGCAGCAAGGATGTGATATTTCTCCAAGATCACTTTCTGGGCGCATTGTTGGAGGGTT
 TGGTGGTCTTACCCTGATCATAATCTCTTCTACACTGCAAACCTTGCTGCTTTCTGACTGTGGAGA
 GGATGGTGTCCCCTATAGAGAGCGCTGAAGACTTAGCCAAGCAGACTGAAATTGCATATGGGACCCTGGA
 CTCTGGTTCAACAAAAGAATTTTCAGACGATCCAAAATGCTGTGTATGAGAAAATGTGGTCTTACATG
 AAATCCGCAGAGCCATCTGTGTTTACAAAACAACAGCTGACGGGTAGCCCGAGTTCGGAAGTCCAAGG
 GAAAGTTGCCTTCTGCTGGAGTCGACCATGAACGAGTACATTGAGCAGAGAAAGCCGTGCGATACGAT
 GAAAGTTGGTGGAAATCTGGATTCAAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAAAT
 GCTGTTAACCTGGCAGTATTAACCTGAATGAGCAAGGCCTCTTGGACAAATTGAAAACAAATGGTGGT
 ACGACAAAAGGAGAGTGGCGCAGCGGGGCGGTGACTCCAAGGACAAGACCAAGTGTCTAAGCCTGAGCAA
 TGTGGCAGGCGTGTCTATATACTTGTGCGAGGTCTGGGCTGGCCATGATGGTGGCTTTGATAGAATTC
 TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAGAACACCCAAAACCTTTAAGCCTGCTC
 CTGCCACCAACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTAA
 GATCTAG

ACGGCTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_00112742

Insert Size:	2667 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001112742.1</u> , <u>NP_001106213.1</u>
RefSeq Size:	5052 bp
RefSeq ORF:	2667 bp
Locus ID:	29628
UniProt ID:	<u>P19492</u>
Cytogenetics:	Xq35
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 at this locus results in different isoforms, which may vary in their signal transduction properties. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses an alternate internal coding exon compared to transcript variant 1, and encodes an isoform (2, also known as flop isoform) that is the same length, but with a few amino acid differences from isoform 1. RNA editing (AGA->GGA) changes Arg769Gly. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>