

Product datasheet for **SC119639**

GRIA4 (NM_000829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIA4 (NM_000829) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIA4
Synonyms:	GluA4; GluA4-ATD; GLUR4; GLUR4C; GLURD; NEDSGA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000829, the custom clone sequence may differ by one or more nucleotides

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ATGAGGATTATTTCCAGACAGATTGTCTTGTTATTTTCTGGATTTTGGGGACTCGCCATGGGAGCCTTTC
CGAGCAGCGTGCAAATAGGTGGTCTCTTCATCCGAAACACAGATCAGGAATACACTGCTTTTCGATTAGC
AATTTTTCTTCATAACACCAGCCCAATGCGTCGGAAGCTCCTTTAATTTGGTACCTCATGTGGACAAC
ATTGAGACAGCCAACAGTTTTGCTGTAACAACCGCTTCTGTTCCAGTATTCTAGAGGAGTATTTGCCA
TTTTTGGACTCTATGATAAGAGGTCGGTACATACCTTGACCTCATTCTGCAGCGCTTACATATCTCCCT
CATCACACCAAGTTCCCTACTGAGGGGGAGAGCCAGTTTGTGCTGCAACTAAGACCTTCGTTACGAGGA
GCACTCTTGAGTTTGTGGATCACTACGAATGGAAGTGTCTTCTGTATGACACAGACAGGGGAT
ACTCGATACTCCAAGCTATTATGAAAAAGCAGGACAAAATGGTTGGCATGTCAGCGCTATATGTGTGGA
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ATAGACTGTGAGATAGAGAGACTTCAAACATATTAGAACAGATTGTAAGTGTGGAAAGCATGTTAAAG
GCTACCATTATATCATTGCAAACCTGGGATTCAAGGATATTTCTTGTAGAGTTTATACATGGTGGAGC
CAATGTTACTGGATTCCAGTTGGTGGATTTAATACACCTATGGTAATCAAACCTAATGGATCGCTGGAA
AACTAGATCAGAGAGAGTATCCAGGATCTGAGACTCCTCAAAGTACACCTCTGCTCTGACTTATGATG
GAGTCCTTGTGATGGCTGAAACTTCCGAAGTCTTAGGAGGCAGAAAATTGATATCTCAAGGAGAGGAAA
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ACAATATGGAATCCCCATATGTTATGTACAAGAAAAATCATGAAATGTTTGAAGGAAATGACAAGTATG
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CCCTGATGAAAAATATGGAGCAAGGGATGCAGACACAAAAATCTGGAATGGGATGGTAGGAGAACTGTT
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CTAAGCCCTTCTAGATTTGGGCATATCTATCATGATCAAAAAGCCTCAGAAATCCAAACCAGGAGTGT
TTCCTTCTGGATCCTCTGGCCTATGAGATTTGGATGTGCATAGTCTTGCCTACATTGGTGTGAGCGTG
GTCTTATCCTAGTTAGTAGATTTAGTCCATATGAGTGGCACACAGAAGAGCCAGAGGACGGAAAGGAAG
GACCCAGCGACCAGCCTCCAATGAGTTTGGCATCTTAAACAGCCTCTGGTTTTCCCTGGGTGCTTTTAT
GCAGCAAGGATGTGACATTTACCCAGATCCCTCTCAGGTGCAATTGTTGGAGGTGTTTGGTGGTCTTT
ACACTCATATTATATCATCTTATACTGCTAACCTCGCTGCTTTCTGACGGTTGAGCGAATGGTCTCTC
CCATAGAAAGTGCAAGACCTGGCCAAACAAACAGAAATGCCTATGGAACACTGGATTGAGGATCAAC
AAAAGAATTTCTCAGAAGATCAAAAATAGCAGTGTATGAAAAGATGTGGACCTACATGCGATCAGCAGAG
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AGGGCAGAAGCGAAGAGAATGAAGCTGACCTTTTCTGAAGCCATAAGAAACAAAGCCAGATTATCCATCA
CTGGGAGTGTGGGAGAGAATGGCCGCTTGTGACGCTGACTGCCAAAGGCTGTACACACTGGAAGTGC
AATCAGACAAAGTTCAGGATTGGCTGTCATTGCATCGGACCTACCATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000829 unedited
 CGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGAAACAAAGAGAGCGCGGCCAGG
 NAGAGGAGAAAAGAAGATGAGGATTATTTCCAGACAGATTGTCTTGTATTTTCTGGATT
 TTGGGGACTCGCCATGGGAGCCTTTCCGAGCAGCGTGCAAATAGGTGGTCTTTCATCCG
 AAACACAGATCAGGAATACACTGCTTTTCGATTAGCAATTTTCTCATAACACCAGCCC
 CAATGCGTCGGAAGCTCCTTTAATTTGGTACCTCATGTGGACAACATTGAGACAGCCAA
 CAGTTTTGTCTGTAACAAACGCCTTCTGTTCCAGTATTCTAGAGGAGATTGCCATTTT
 TGGACTCTATGATAAGAGGTCGGTACATACCTTGACCTCATTCTGCAGCGCCTTACATAT
 CTCCTCATCACACCAAGTTTCCCTACTGAGGGGAGAGCCAGTTTGTGCTGCAACTAAG
 ACCTTCGTTACGAGGAGCACTCTTGAGTTTGTGGATCACTACGAATGGAAGTGTGTTTGT
 CTTCTGTATGACACAGACAGGGGATACTCGATACTCCAAGCTATTATGGAAAAAGCAGG
 ACANAATGTTGGCATGTCAGCGCTATATGTGTGGAAAATNTAATGATGTCAGCTATAG
 GCAACTTCTAGAAGAACTTGACAGAAGACAAGAGAAGAAGTTTGTAAAGACTGTGAGAT
 AGAGAGACTTCANACATATTANAACAGATTGTAGTGTGGAAAGCATGTTAAAGGCTACC
 ATTATATCATTGCANACTTGGGATTCAAGGATATTTCTCTGAGAGTTATACATGGTGGAA
 GCCAATGGTACTGGGATCCAGTTGGTGGATTTTAAACACCTAGGGAAACCAACTAAGGGA
 ACGCTGGAAGAACTGATCAGAAGATTTCCGGATCTGAGACTCTCCCGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000829 unedited
 CCCCCTACTTAGTCCGCGGCCGCAATCTACAGCGGGTTTTTTTTTTTTTTTTTTTATTGCAA
 GAACATCTGCTGTTTTATTCTTTTTGGTGGGTACAAAAACCACAATGTTGTACACAGAAT
 GAGATTATAAATAATACCATTAACATGAGTGACCTGTCATCTTTTCGAGTCTACACCGC
 AGACTGATGATTGAACCTAAACGTTTTCTCTTTTGGTTTTCTCCTGTTGTGAGACA
 AATGCAATCGGTGAATCGACTCATGTGACATAGTGAAGTTACAGCAAACAAGAAGATGA
 CCAACAACTTTTATAAAAAAAGTCTCTAAAGTTTATTACAGTATGGCATTATATCAA
 TTATTGCAATGTATTGTTCCCTAAGATGGTTAGAAAAAGAATTGTGTTGCTCCTACTG
 AATTTACGTACAGTAAAAAGCAAGCATGTTTCAGTATTTGTTTTCTCAAAGTAAGTGA
 CATACTTCCTTATTTTTTTTTTCCCACAGTTTTACATGTCTGCTCATTATTTTCTTAC
 CCCACCTACCGCTCCCCCCCCCTCCCTCCACCATCCCCCCCCGCCATCCCGACCACCC
 CCCCCCTTTCCCTCCTACCTCTCCACAACCCTCATATCCCCTCCTCCCCCCCCCT
 CCCCCTTCCCTCCCTCCCTTCTCTTCTCCCCCCCCCTCTCCCCCCCCACCTCCCTCCCA
 CCCCCCCCCCCCCCCCCCTCCACCTCCAACCCTCCCCCCCCCTCCCCCCCCCTCTCT
 CTTTTCTTTCATCCCCTACCTTCACTACCCCCACCCCCACCTCACTCCCCCACCCACC
 CTACCACATCCCCACCCCTTCTTCTTCCCCCCCCAACTACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_000829

Insert Size:

4300 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_000829.1 , NP_000820.1
RefSeq Size:	5508 bp
RefSeq ORF:	5508 bp
Locus ID:	2893
UniProt ID:	P48058
Cytogenetics:	11q22.3
Domains:	lig_chan, ANF_receptor
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
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. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). RNA editing (AGA->GGA) changes Arg765Gly. 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>