

## Product datasheet for **SC315627**

### **GRIA4 (NM\_001077243) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GRIA4 (NM_001077243) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIA4
Synonyms:	GluA4; GluA4-ATD; GLUR4; GLUR4C; GLURD; NEDSGA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001077243, the custom clone sequence may differ by one or more nucleotides

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GAAAGAGAGAGAGCGCGCCAGGGAGAGGAGAAAAGAAGATGAGGATTATTTCCAGACAGATTGTCTTG
TTATTTTCTGGATTTTGGGACTCGCCATGGGAGCCTTTCCGAGCAGCGTGCAAAATAGTGGTCTCTTCA
TCGAAACACAGATCAGGAATACACTGCTTTTCGATTAGCAATTTTCTCATAACACCAGCCCAATGC
GTCGGAAGCTCCTTTAATTTGGTACCTCATGTGGACAACATTGAGACAGCCAACAGTTTGGCTGTAAAC
AACGCCTTCTGTTCCAGTATTCTAGAGGAGTATTTGCCATTTTGGACTCTATGATAAGAGGTCGGTAC
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CAGGACAAAATGGTTGGCATGTCAGCGCTATATGTGTGAAAAATTTAATGATGCAGCTATAGGCAACT
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TCAAGGATATTTCTTGGAGAGTTTATACATGGTGGAGCCAATGTTACTGGATTCCAGTTGGTGGATTT
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GAGACTCCTCAAAGTACACCTCTGCTCTGACTTATGATGGAGTCCTTGTGATGGCTGAAACTTTCCGAA
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TTGGATGTGCATAGTCTTGCCTACATTGGTGTGACGCGTGGTCTTATTCTAGTGTAGTAGATTTAGTCCA
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GCATCTTTAACAGCCTCTGGTTTTCCCTGGGTGCTTTTATGCAGCAAGGATGTGACATTTACCCAGATC
CCTCTCAGGTCGAATTGTTGGAGGTGTTGGTGGTCTTTACACTCATCATTATATCATCTTATACTGCT
AACCTCGTCTTTCTGACGGTTGAGCGAATGGTCTCTCCCATAGAAAAGTGCAGAAGACCTGGCCAAAC
AAACAGAAATGCGCTATGGAACACTGGATTGAGGATCAACAAAAGAAATCTTCAAGAGATCAAAAATAGC
AGTGTATGAAAAGATGTGGACCTACATGCGATCAGCAGAGCCATCAGTATCACTAGGACTACAGCTGAG
GGAGTAGCTCGTGTCCGCAAAATCCAAGGGCAAAATTTGCCCTTCTCCTGGAGTCCACTATGAATGAATACA
TTGAGCAGCGAAAGCCATGTGACACGATGAAAGTGGGAGGAAATCTGGATTCCAAAGGCTATGGAGTAGC
AACGCCAAAGGGTTCTCATTGGGAAATGCTGTTAACCTCGCAGTTTTAAACTGAATGAACAAGGCCTC
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GGCAATGCTGGTGGCTTTGATAGAGTTCTGTTACAAGTCCAGGGCAGAAGCGAAGAGAATGAAGGTGGCA
AAGAGTGCACAGACTTTTAAACCAACTTCTCGCAGAATACCCAGAATTTAGCAACCTATAGAGAAGGTT
ACAACGTATATGGAACCGAAAGTATTAATAATTTAG
    
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001077243

<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>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_001077243.1</a></u> , <u><a href="#">NP_001070711.1</a></u>
<b>RefSeq Size:</b>	5621 bp
<b>RefSeq ORF:</b>	2655 bp
<b>Locus ID:</b>	2893
<b>UniProt ID:</b>	<u><a href="#">P48058</a></u>
<b>Cytogenetics:</b>	11q22.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<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. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) contains an alternate in-frame coding exon, and uses a downstream donor splice site at the penultimate exon, compared to transcript variant 1. This results in a shorter isoform (2) with a different C-terminus compared to isoform 1. RNA editing (AGA-&gt;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>