

## Product datasheet for **SC332577**

### **GRIA1 (NM\_001258022) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GRIA1 (NM_001258022) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIA1
Synonyms:	GluA1; GLUH1; GLUR1; GLURA; HBGR1
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332577 representing NM\_001258022.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGCTGCAGTACCCATCTCTTTCAGCCTCTCCAGCTAGCTGGCGGCTTGGAGTGGCCATGGAGTAAC
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001258022  
**Insert Size:** 2751 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>	<a href="#">NM_001258022.1</a>
<b>RefSeq Size:</b>	5439 bp
<b>RefSeq ORF:</b>	2751 bp
<b>Locus ID:</b>	2890
<b>UniProt ID:</b>	<a href="#">P42261</a>
<b>Cytogenetics:</b>	5q33.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction
<b>MW:</b>	102.9 kDa
<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 with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (6) has an alternate exon in place of the 5'-most exon of variant 1 and has an alternate in-frame exon in place of another exon of the same size. The resulting isoform (6) has a longer and distinct N-terminus and has a different sequence (but same length) segment in the C-terminus compared to isoform 1.</p>