

## Product datasheet for MR221619

### Gria4 (NM\_001113181) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_001113181) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gria4
Synonyms:	Glu; GluA4; Glur; Glur-4; GluR-D; Glur4; Gluralpha4; spk; spkw1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR221619 representing NM_001113181 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGATTATTTGCAGGCAGATTGCTTGTGTTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC  
CGAGCAGCGTTCAAATAGGTGGTCTCTTATCCGAAACACAGACCAGGAATACACTGCTTTTCGGCTAGC  
TATCTTTCTTCATAACACCAGCCCAATGCATCTGAAGCCCTTCAATTTGGTACCTCATGTGGACAAC  
ATTGAGACTGCCAACAGTTTTGCTGTGACAAATGCATTCTGTTCCAGTATTCTAGAGGGGTGTTTGCCA  
TTTTTGGACTCTATGACAAGAGGTCAGTGCATACCTTGACCTCCTTCTGCAGTGCTCTGCACATCTCT  
CATCACACCAAGCTTCCCCTGAAGGAGAGCCAGTTCGTGCTTCAGCTAAGACCTTCATTGAGAGGT  
GCACTCCTGAGCCTCCTGGATCACTATGAATGGAATTGTTTTGTCTTCTGTATGATACAGACAGGGGT  
ATTCAATACTTCAAGCTATAATGGAAAAGCAGGACAGAATGGATGGCATGTCAGTGCGATATGTGTGA  
AAATTTAACGATGTCAGCTACAGGCACTACTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTA  
ATAGATTGTGAGATAGAAAGCCTCAAACATATTAGAACAAATGTGAGTGTGGGAAGCACGTCAAAG  
GCTACCATATATCATCGCAAATTTGGGTTTCAAAGATATTTCTTGTGAGAGATTATACATGGAGGAGC  
AAATGTCAGTGGATTCCAGTTAGTAGATTTAATACGCCATGGTGACGAACTAATGGATCGTGGAAAG  
AACTAGATCAACGAGAATATCCAGGATCTGAAACACCTCAAAGTACACTTCTGCTCTCACTTACGATG  
GTGCTTGGTAATGGCTGAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA  
TGCCGGGGATTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGAACACTGAAG  
CAGGTTCAATTCAGGACTGACTGGGAATGTTCAATTTGACCACTATGGACGTAGAGTTAATTACACAA  
TGGATGTGTTGAATAAAAGCACAGGACCTCGAAAGGTTGGCTATTGGAACGATATGGATAAATTAGT  
CTTGATCAAGATGCGCCTACTCTGGCAATGACACAGCAGCTATCGAGAACAGAACAGTGGTTGAACC  
ACAATTATGCCTCTGATGAAGAATCCTATTTAAGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA





<b>ORF Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001113181.1</a> , <a href="#">NP_001106652.1</a>
<b>RefSeq Size:</b>	2338 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	14802
<b>UniProt ID:</b>	<a href="#">Q9Z2W8</a>
<b>Cytogenetics:</b>	9 2.46 cM
<b>MW:</b>	49.6 kDa
<b>Gene Summary:</b>	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]