

Product datasheet for MC215712

Gria4 (NM_001113181) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_001113181) Mouse Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>MC215712 representing NM_001113181 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGGATTATTTGCAGGCAGATTGCTTGTGTTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC
CGAGCAGCGTTCAAATAGGTGGTCTCTTATCCGAAACACAGACCAGGAATACACTGCTTTTCGGCTAGC
TATCTTTCTTCATAACACCAGCCCAATGCATCTGAAGCCCTTCAATTTGGTACCTCATGTGGACAAC
ATTGAGACTGCCAACAGTTTTGCTGTGACAAATGCATTCTGTTCCAGTATTCTAGAGGGGTGTTTGCCA
TTTTTGGACTCTATGACAAGAGGTCAAGTGCATACCTTGACCTCCTTCTGCAGTGCTCTGCACATCTCT
CATCACACCAAGCTTCCCCTGAAGGAGAGCCAGTTCGTGCTTCAGCTAAGACCTTCATTGAGAGGT
GCACTCCTGAGCCTCCTGGATCACTATGAATGGAATTGTTTTGTCTTCTGTATGATACAGACAGGGGT
ATTCAATACTTCAAGCTATAATGGAAAAAGCAGGACAGAATGGATGGCATGTCAGTGCGATATGTGTGA
AAATTTAACGATGTCAGCTACAGGCACTACTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTA
ATAGATTGTGAGATAGAAAGCTTCAAACATATTAGAACAAATGTGAGTGTGGGAAGCACGTCAAAG
GCTACCATATATCATCGCAAATTTGGGTTTCAAAGATATTTCTTTGAGAGATTATACATGGAGGAGC
AAATGTCAGTGGATTCCAGTTAGTAGATTTAATACGCCATGGTGACGAACTAATGGATCGTGGAAAG
AACTAGATCAACGAGAATATCCAGGATCTGAAACACCTCAAAGTACACTTCTGCTCTCACTTACGATG
GTGCTTGGTAATGGCTGAAACTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA
TGCCGGGGATTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGAACACTGAAG
CAGGTTCAATTCAGGACTGACTGGGAATGTTCAATTTGACCACTATGGACGTAGAGTTAATTACACAA
TGGATGTGTTGAATAAAAAGCACAGGACCTCGAAAGGTTGGCTATTGGAACGATATGGATAAATTAGT
CTTGATTCAAGATGCGCCTACTCTTGCAATGACACAGCAGCTATCGAGAACAGAACAGTGGTTGAACC
ACAATTATGCCTCTGATGAAGAATCCTATTTAAGAAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001113181
Insert Size:	1302 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:	<u>NM_001113181.1</u> , <u>NP_001106652.1</u>
RefSeq Size:	2338 bp
RefSeq ORF:	1302 bp
Locus ID:	14802
UniProt ID:	<u>Q9Z2W8</u>
Cytogenetics:	9 2.46 cM
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. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) is missing several coding exons at the 3' end, and contains a novel 3' terminal exon compared to transcript variant 1. This results in a shorter isoform (3) with a different C-terminus compared to isoform 1.</p>