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Product datasheet for MC222463

Gria4 (NM_001113180) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_001113180) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria4
Synonyms:	Glu; GluA4; Glur; Glur-4; GluR-D; Glur4; Gluralpha4; spk; spkw1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222463 representing NM_001113180
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGATTATTTGCAGGCAGATTGTCTTGTTGTTTTCTGGATTTTGGGGACTCGCCATGGGAGCCTTTC
CGAGCAGCGTTCAAATAGGTGGTCTCTTTATCCGAAACACAGACCAGGAATACACTGCTTTTCGGCTAGC
TATCTTTCTTCATAACACCAGCCCCAATGCATCTGAAGCCCCTTTCAATTTGGTACCTCATGTGGACAAC
ATTGAGACTGCCAACAGTTTTGCTGTGACAAATGCATTCTGTTCCCAGTATTCTAGAGGGGTGTTTGCCA
TTTTTGGACTCTATGACAAGAGGTCAGTGCATACCTTGACCTCCTTCTGCAGTGCTCTGCACATCTCTCT
CATCACACCAAGCTTCCCCACTGAAGGAGAGAGCCAGTTCGTGCTTCAGCTAAGACCTTCATTGAGAGGT
GCACTCCTGAGCCTCCTGGATCACTATGAATGGAATTGTTTTGTCTTCCTGTATGATACAGACAGGGGGT
ATTCAATACTTCAAGCTATAATGGAAAAAGCAGGACAGAATGGATGGCATGTCAGTGCGATATGTGTGGA
AAATTTTAACGATGTCAGCTACAGGCAACTACTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTA
ATAGATTGTGAGATAGAAAGGCTTCAAAACATATTAGAACAAATTGTGAGTGTTGGGAAGCACGTCAAAG
GCTACCATTATATCATCGCAAATTTGGGTTTCAAAGATATTTCTCTTGAGAGATTTATACATGGAGGAGC
AAATGTCACTGGATTCCAGTTAGTAGATTTTAATACGCCCATGGTGACGAAACTAATGGATCGCTGGAAG
AAACTAGATCAACGAGAATATCCAGGATCTGAAACACCTCCAAAGTACACTTCTGCTCTCACTTACGATG
GTGTCTTGGTAATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA
TGCCGGGGATTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGAACACTGAAG
CAGGTTCGAATTCAAGGACTGACTGGGAATGTTCAATTTGACCACTATGGACGTAGAGTTAATTACACAA
TGGATGTGTTTGAATTAAAAAGCACAGGACCTCGAAAGGTTGGCTATTGGAACGATATGGATAAATTAGT
CTTGATTCAAGATGCGCCTACTCTTGGCAATGACACAGCAGCTATCGAGAACAGAACAGTGGTTGTAACC
ACAATTATGGAATCCCCCTACGTTATGTACAAGAAAAATCATGAAATGTTTGAAGGAAATGACAAGTATG
AAGGCTACTGTGTAGACTTGGCATCTGAAATTGCGAAACATATCGGTATCAAATATAAAATTGCCATTGT
CCCTGATGGAAAATATGGAGCAAGGGATGCGGACACCAAAATTTGGAATGGGATGGTAGGAGAGCTTGTG
TATGGGAAAGCAGAGATTGCCATTGCACCTCTGACAATCACGTTGGTGCGAGAGGAGGTCATCGACTTTT
CTAAGCCTTTTATGAGTTTAGGCATCTCTATCATGATCAAAAAACCTCAGAAATCTAAACCAGGAGTGTT
TTCCTTCTTGGACCCTCTGGCCTATGAGATCTGGATGTGCATAGTGTTTGCATACATTGGTGTCAGCGTG
GTCTTGTTCCTAGTCAGTAGGTTTAGCCCATATGAGTGGCACACAGAAGAGCCTGAGGATGGAAAAGAAG
GACCCAGTGACCAACCTCCCAATGAGTTTGGCATCTTTAACAGCCTCTGGTTTTCCCTGGGTGCCTTTAT
GCAACAAGGATGTGACATTTCACCCAGATCCCTGTCCGGTCGGATTGTTGGAGGCGTATGGTGGTTCTTC
ACTCTCATCATTATCTCATCCTACACTGCTAATCTGGCTGCATTCCTGACAGTGGAGAGAATGGTCTCCC
CCATAGAAAGTGCAGAAGACCTGGCCAAACAAACAGAAATTGCCTATGGAACACTTGATTCGGGATCAAC
AAAAGAATTCTTCAGAAGATCAAAAATAGCAGTATATGAAAAGATGTGGACCTACATGCGATCGGCAGAG
CCATCTGTGTTCACTAGAACTACAGCTGAGGGCGTGGCCCGTGTCCGCAAGTCCAAGGGCAAATTTGCCT
TCCTCCTGGAGTCCACGATGAATGAATACATTGAGCAGCGAAAGCCCTGTGACACGATGAAAGTGGGAGG
AAACCTGGATTCCAAAGGCTATGGTGTAGCGACGCCCAAGGGTTCCTCATTAGGAAATGCTGTTAACCTC
GCAGTTTTAAAACTGAATGAACAAGGCCTCTTGGACAAATTGAAAAACAAATGGTGGTACGACAAAGGAG
AATGTGGCAGCGGGGGAGGTGACTCCAAGGACAAGACGAGTGCCTTGAGCCTGAGCAACGTAGCAGGCGT
CTTCTACATTCTGGTTGGCGGCTTGGGCTTGGCAATGCTGGTGGCTTTGATAGAGTTCTGTTACAAGTCC
AGGGCAGAGGCGAAGAGAATGAAGCTGACTTTTTCCGAAGCCATAAGAAACAAAGCCAGGTTATCCATCA
CTGGGAGTGTGGGAGAAAACGGCCGTGTGCTGACCCCCGACTGCCCCAAGGCCGTACACACAGGAACTGC
GATTAGACAGAGCTCGGGATTGGCTGTCATTGCATCGGACCTACCATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001113180

Insert Size:	2709 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:	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_001113180.1, NP_001106651.1
RefSeq Size:	5458 bp
RefSeq ORF:	2709 bp
Locus ID:	14802
UniProt ID:	Q9Z2W8
Cytogenetics:	9 2.46 cM
Gene Summary:	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] Transcript Variant: This variant (2) uses an alternate internal coding exon compared to transcript variant 1, and encodes an isoform (2, also known as flop isoform) that is the same length, but with a few amino acid differences compared to isoform 1. RNA editing (AGA->GGA) changes Arg765Gly.