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Product datasheet for MC203472

Gria1 (NM_008165) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria1 (NM_008165) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gria1
Synonyms:	2900051M01Rik; Glr-1; Glr1; GluA1; Glur-1; GluR-A; gluR-K1; Glur1; GluRA; HIPA1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC056397 GAAGAATCAAAGGGAGGGGAGGGAAGACCAAATCTATGGTTGGACCAGGGCTTCTTTTTCGCCAATGTAA AAAGGAATATGCCGTACATCTTTGCCTTTTTCTGCACCGGTTTTCTAGGTGCGGTTGTGGGTGCCAATTT CCCCAACAATATCCAGATAGGGGGATTATTTCCAAACCAACAATCACAGGAACATGCGGCTTTTAGGTTT GCTTTGTCACAACTCACGGAGCCCCCCAAGCTGCTTCCCCAGATCGATATTGTGAACATCAGCGACAGCT TTGAGATGACTTACCGATTCTGTTCCCAGTTCTCCAAAGGAGTGTACGCCATCTTTGGATTTTATGAACG AAGGACTGTCAACATGCTGACCTCCTTCTGTGGGGCCCTCCATGTGTGCTTCATCACTCCAAGTTTTCCC GTTGACACATCCAATCAGTTTGTCCTTCAGCTGCGCCCGGAACTACAGGAAGCTCTCATTAGCATTATCG ACCATTACAAGTGGCAGACTTTTGTCTACATTTATGATGCTGACCGGGGCCTGTCAGTCCTGCAGAGAGT CTTGGATACAGCCGCCGAGAAGAACTGGCAGGTGACGGCTGTCAACATTCTAACAACCACGGAGGAAGGA TACCGGATGCTCTTTCAGGACCTGGAGAAGAAAAAGGAGAGGCTGGTGGTGGTGGACTGTGAATCAGAAC GCCTCAACGCCATCCTGGGCCAGATTGTGAAGCTAGAAAAGAACGGCATCGGGTACCACTACATCCTCGC CAACCTGGGCTTCATGGACATTGACTTAAATAAGTTCAAGGAGAGTGGAGCCAATGTGACAGGTTTCCAA CTGGTGAACTACACAGACACGATCCCAGCCAGAATCATGCAGCAGTGGAGGACAAGTGACGCTCGGGACC ACACCAGGGTGGACTGGAAGAGGCCAAAGTACACTTCTGCTCTTACCTATGATGGTGTGAAGGTGATGGC GGAGGCCTTCCAGAGCCTGCGGAGGCAGAGGATTGACATATCCCGGCGAGGGAATGCTGGGGACTGTCTG GCTAACCCAGCTGTGCCCTGGGGCCAAGGGATCGACATCCAGAGAGCCCTGCAGCAGGTGCGCTTTGAAG GTTTGACAGGAAATGTGCAGTTTAACGAGAAAGGGCGCCGGACCAACTACACCCTCCATGTGATCGAAAT GAAGCATGATGGAATCCGCAAGATTGGTTACTGGAATGAAGATGATAAATTTGTCCCCGCAGCCACGGAC GCTCAGGCTGGAGGGGACAACTCAAGCGTCCAGAATAGAACCTACATCGTCACGACTATCCTCGAAGATC CTTACGTGATGCTTAAAAAGAATGCCAACCAATTTGAAGGCAATGACCGCTATGAGGGCTACTGCGTGGA ACTGGCTGCGGAGATCGCCAAGCACGTGGGCTATTCCTACCGACTTGAGATTGTCAGCGACGGCAAATAC GGAGCCCGGGATCCTGACACAAAGGCCTGGAATGGCATGGTGGGAGAGCTAGTCTATGGAAGAGCAGATG TGGCGGTGGCCCCCTTGACCATAACCTTGGTCCGGGAGGAAGTCATCGACTTCTCCAAGCCATTCATGAG TTTGGGAATCTCCATTATGATTAAGAAGCCACAGAAGTCCAAGCCAGGTGTCTTCTCCTTTCTTGACCCT TTGGCCTACGAGATCTGGATGTGTATAGTGTTTGCCTACATTGGAGTGAGCGTCGTCCTCTTCCTGGTCA GCCGTTTCAGTCCTTATGAATGGCACAGTGAAGAGTTTGAAGAAGGACGAGATCAGACAACCAGTGACCA

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TGTGGACCCATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	AscI-NotI
ACCN:	NM_008165
Insert Size:	2724 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:	BC056397, AAH56397
RefSeq Size:	5434 bp
RefSeq ORF:	2724 bp
Locus ID:	14799
Cytogenetics:	11 34.51 cM
Gene Summary:	Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate in-frame exon, compared to variant 1, resulting in a protein (isoform 2) with a distinct internal segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.