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Product datasheet for RN217310

Gria4 (NM_001113184) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_001113184) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gria4
Synonyms:	GluA4; GluR-D; GluR4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>RN217310 representing NM_001113184
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGATTATTTGCAGGCAGATTGTCTTGTTGTTTTCTGGATTTTGGGGACTCGCCATGGGAGCCTTTC
CAAGCAGCGTTCAAATAGGTGGTCTCTTCATCCGAAACACAGACCAGGAATACACTGCTTTTAGACTGGC
AATCTTTCTTCATAACACCAGCCCCAATGCATCGGAAGCTCCTTTCAATTTGGTACCTCATGTGGACAAC
ATTGAGACTGCCAACAGTTTTGCTGTGACAAACGCCTTCTGTTCCCAGTATTCTAGAGGGGTGTTTGCCA
TTTTTGGACTCTATGACAAGAGATCCGTGCATACCTTGACCTCGTTCTGCAGTGCTCTGCACATCTCTCT
CATCACACCAAGCTTTCCCACTGAAGGGGAGAGCCAGTTTGTGCTGCAGCTAAGACCTTCACTGAGAGGT
GCACTCCTGAGCCTCCTGGATCACTATGAGTGGAACTGTTTCGTCTTCCTGTATGATACAGACAGGGGGT
ATTCAATACTTCAAGCTATAATGGAAAAAGCAGGACAAAATGGATGGCATGTCAGTGCAATATGTGTGGA
AAATTTTAATGATGTCAGCTACAGGCAACTGCTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTG
ATAGATTGTGAGATAGAGAGGCTTCAAAACATTTTAGAACAAATTGTGAGTGTTGGGAAGCATGTCAAAG
GCTACCATTATATCATCGCAAATTTGGGTTTCAAGGATATTTCTCTTGAGAGATTTATACATGGAGGAGC
AAATGTAACAGGATTCCAGTTGGTAGATTTTAATACACCCATGGTAACCAAACTAATGGATCGGTGGAAG
AAACTAGATCAGAGAGAATATCCAGGTTCTGAAACACCTCCAAAGTACACCTCTGCTCTCACTTATGATG
GAGTCCTGGTGATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA
TGCTGGGGACTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGGACACTGAAG
CAGGTTCGAATTCAAGGGCTGACTGGGAATGTTCAATTTGACCATTATGGACGTAGAGTTAATTACACAA
TGGATGTGTTTGAACTGAAAAGCACAGGACCTCGAAAGGTTGGCTACTGGAATGATATGGATAAATTAGT
CTTGATTCAAGATATGCCTACTCTTGGCAATGACACAGCAGCTATTGAGAACAGAACAGTGGTTGTAACC
ACAATTATGGAATCTCCCTATGTTATGTACAAGAAAAATCATGAAATGTTTGAAGGAAATGACAAGTACG
AAGGCTACTGTGTAGATCTGGCATCGGAAATTGCAAAACATATTGGTATCAAATATAAAATTGCCATTGT
TCCTGATGGAAAATATGGAGCAAGGGACGCAGACACTAAGATCTGGAATGGGATGGTAGGAGAGCTTGTG
TATGGGAAAGCAGAGATTGCTATTGCCCCTCTGACAATCACATTGGTTCGAGAGGAAGTCATCGATTTTT
CTAAGCCTTTTATGAGTTTAGGCATCTCTATCATGATCAAAAAACCTCAGAAATCTAAACCAGGAGTCTT
TTCCTTCTTGGACCCTCTGGCCTATGAGATCTGGATGTGCATAGTGTTTGCATACATTGGTGTCAGTGTG
GTCTTGTTCCTAGTCAGTAGGTTTAGCCCATATGAGTGGCACACAGAAGAACCTGAGGATGGGAAGGAAG
GACCCAGTGACCAGCCTCCCAATGAATTTGGCATCTTTAACAGCCTTTGGTTTTCCCTGGGTGCCTTTAT
GCAACAAGGATGTGACATTTCACCCAGATCCCTGTCAGGTCGGATTGTTGGAGGCGTGTGGTGGTTCTTC
ACACTCATCATTATATCGTCCTACACTGCTAATCTGGCTGCATTCCTTACTGTGGAGAGAATGGTCTCCC
CCATAGAAAGTGCAGAAGACCTGGCCAAACAAACAGAAATTGCCTATGGAACACTTGATTCTGGGTCAAC
AAAAGAATTCTTCAGAAGATCAAAAATAGCAGTGTATGAAAAGATGTGGACCTACATGCGATCGGCAGAG
CCGTCTGTGTTCACTAGAACTACAGCTGAGGGCGTGGCTCGTGTCCGCAAGTCCAAGGGCAAATTTGCCT
TTCTCCTGGAGTCCACGATGAATGAATACATTGAGCAGCGAAAGCCCTGTGACACGATGAAAGTGGGAGG
AAACCTGGATTCCAAAGGCTATGGTGTAGCAACGCCCAAGGGTTCCTCATTAAGAAATGCTGTTAACCTC
GCAGTTTTAAAACTGAATGAACAAGGCCTCTTGGACAAATTGAAAAACAAATGGTGGTACGACAAAGGAG
AATGTGGCAGCGGGGGAGGTGACTCCAAGGACAAGACGAGTGCCTTGAGCCTGAGCAACGTAGCAGGCGT
CTTCTACATTCTGGTTGGCGGCCTGGGCTTGGCAATGCTGGTGGCTTTGATAGAGTTCTGTTACAAGTCC
AGGGCAGAGGCGAAGAGAATGAAGCTGACTTTTTCCGAAGCCATAAGAAACAAAGCCAGGTTATCCATCA
CTGGGAGTGTGGGAGAAAACGGCCGTGTGCTGACCCCTGACTGCCCCAAGGCCGTACACACAGGAACTGC
AATTAGACAAAGTTCGGGATTGGCTGTCATTGCATCGGACCTACCATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001113184

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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001113184.1, NP_001106655.1
RefSeq Size:	4141 bp
RefSeq ORF:	2709 bp
Locus ID:	29629
UniProt ID:	P19493
Cytogenetics:	8q11
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.