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Product datasheet for RR200372

Gria4 (NM_001113185) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria4 (NM_001113185) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gria4
Synonyms:	GluA4; GluR-D; GluR4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200372 representing NM_001113185 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGGATTATTTGCAGGCAGATTGTCTTGTTGTTTTCTGGATTTTGGGGACTCGCCATGGGAGCCTTTC CAAGCAGCGTTCAAATAGGTGGTCTCTTCATCCGAAACACAGACCAGGAATACACTGCTTTTAGACTGGC AATCTTTCTTCATAACACCAGCCCCAATGCATCGGAAGCTCCTTTCAATTTGGTACCTCATGTGGACAAC ATTGAGACTGCCAACAGTTTTGCTGTGACAAACGCCTTCTGTTCCCAGTATTCTAGAGGGGTGTTTGCCA TTTTTGGACTCTATGACAAGAGATCCGTGCATACCTTGACCTCGTTCTGCAGTGCTCTGCACATCTCTCT CATCACACCAAGCTTTCCCACTGAAGGGGAGAGCCAGTTTGTGCTGCAGCTAAGACCTTCACTGAGAGGT GCACTCCTGAGCCTCCTGGATCACTATGAGTGGAACTGTTTCGTCTTCCTGTATGATACAGACAGGGGGT ATTCAATACTTCAAGCTATAATGGAAAAAGCAGGACAAAATGGATGGCATGTCAGTGCAATATGTGTGGA AAATTTTAATGATGTCAGCTACAGGCAACTGCTAGAAGAGCTTGACAGAAGACAAGAGAAGAAATTTGTG ATAGATTGTGAGATAGAGAGGCTTCAAAACATTTTAGAACAAATTGTGAGTGTTGGGAAGCATGTCAAAG GCTACCATTATATCATCGCAAATTTGGGTTTCAAGGATATTTCTCTTGAGAGATTTATACATGGAGGAGC AAATGTAACAGGATTCCAGTTGGTAGATTTTAATACACCCATGGTAACCAAACTAATGGATCGGTGGAAG AAACTAGATCAGAGAGAATATCCAGGTTCTGAAACACCTCCAAAGTACACCTCTGCTCTCACTTATGATG GAGTCCTGGTGATGGCTGAAACTTTCCGAAGTCTCAGAAGACAGAAAATTGATATTTCAAGGAGAGGAAA TGCTGGGGACTGTCTGGCAAACCCTGCTGCTCCCTGGGGCCAGGGAATTGACATGGAGAGGACACTGAAG CAGGTTCGAATTCAAGGGCTGACTGGGAATGTTCAATTTGACCATTATGGACGTAGAGTTAATTACACAA TGGATGTGTTTGAACTGAAAAGCACAGGACCTCGAAAGGTTGGCTACTGGAATGATATGGATAAATTAGT CTTGATTCAAGATATGCCTACTCTTGGCAATGACACAGCAGCTATTGAGAACAGAACAGTGGTTGTAACC ACAATTATGCCTCTGATGAAGAATCCTATTTTAAGAAAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

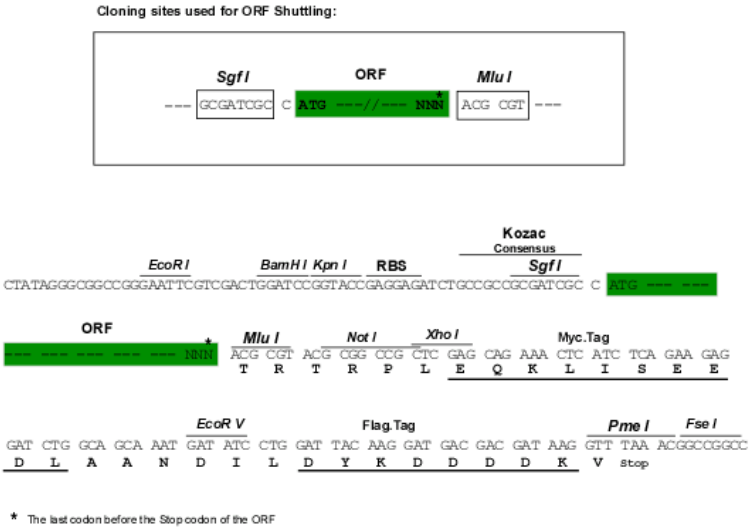
>RR200372 representing NM_001113185
Red=Cloning site Green=Tags(s)

MRIICRQIVLLFSGFWGLAMGAFPSSVQIGGLFIRNTDQEYTAFRLAIFLHNTSPNASEAPFNLVPHVDN
IETANSFAVTNAFCSQYSRGVFAIFGLYDKRSVHTLTSFCSALHISLITPSFPTEGESQFVLQLRPSLRG
ALLSLLDHYEWNCFVFLYDTDRGYSILQAIMEKAGQNGWHVSAICVENFNDVSYRQLLEELDRRQEKKFV
IDCEIERLQNILEQIVSVGKHVKGYHYIIANLGFKDISLERFIHGGANVTGFQLVDFNTPMVTKLMDRWK
KLDQREYPGSETPPKYTSALTYDGVLVMAETFRSLRRQKIDISRRGNAGDCLANPAAPWGQGIDMERTLK
QVRIQGLTGNVQFDHYGRRVNYTMDVFELKSTGPRKVGYWNDMDKLVLIQDMPTLGNDTAAIENRTVVVT
TIMPLMKNPILRN

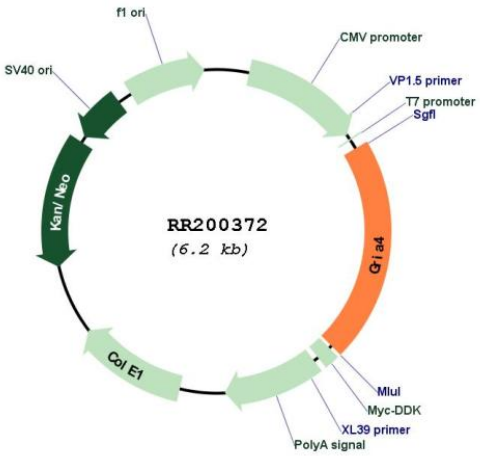
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001113185

ORF Size:	1299 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001113185.1, NP_001106656.1
RefSeq Size:	2966 bp
RefSeq ORF:	1302 bp
Locus ID:	29629
Cytogenetics:	8q11
MW:	49.2 kDa
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]