

Product datasheet for **RR201958**

Gria1 (NM_031608) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria1 (NM_031608) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gria1
Synonyms:	GluA1; gluR-A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR201958 representing NM_031608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTACATCTTTGCCTTTTTCTGCACCGTTTTCTAGGTGCGGTTGTGGGTGCCAATTTCCCAACA
 ATATCCAGATAGGGGGTTATTTCCAAACCAACAATCACAGGAACATGCGGCTTTTAGGTTTGCTTTGTC
 ACAACTCACGGAGCCCCCAAGCTGCTTCCCCAGATCGATATTGTGAACATCAGCGACAGCTTTGAGATG
 ACTTACCGTTTCTGTTCCAGTTCTCCAAAGGAGTCTATGCCATCTTTGGATTTTATGAACGAAGGACTG
 TCAACATGCTGACCTCCTTCTGTGGGGCCTCCATGTGTGCTTACTTCAAGTTTTCTGTTGACAC
 ATCCAATCAATTTGCTCCTCAGCTACGCCCGAACTACAGGAAGCTCTCATTAGCATTATCGACCATTAC
 AAGTGGCAAACCTTTGTCTACATTTATGATGCTGACCGGGCCTGTCAGTCTGCAGAGAGTCTTGATA
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 GCTCTTTCAGGACCTGGAGAAGAAAAGGAGAGGCTGGTGGTGGTTGACTGTGAATCAGAACGCCTCAAC
 GCCATCCTGGGCCAGATCGTGAAGCTAGAAAAGAAATGGCATCGGGTACCACTACATCCTCGCCAATCTGG
 GCTTCATGGACATTGACTTAAATAAGTTCAAGGAGAGCGGAGCCAATGTGACAGGTTTCCAGCTGGTGAA
 CTACACAGACACGATCCCAGCCAGAATCATGCAGCAATGGAGGACAAGTACTCCCGAGACCATACCAGG
 GTGGACTGGAAGAGGCCAAAGTACACTTCTGCTCTCACCTATGATGGTGTCAAGGTGATGGCTGAGGCC
 TCCAAAGCCTGCGGAGGCAGAGGATTGACATATCCCGCCGGGGGAATGCTGGGGACTGTCTGGCTAACCC
 AGCTGTGCCCTGGGGTCAAGGGATCGACATCCAGAGAGCCCTGCAGCAGGTGCGCTTCAAGGTTTGACA
 GAAATGTGCAGTTCAACGAGAAAGGGCGCCGACCAATTACACCCTCCACGTGATCGAATGAAACATG
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 AGTTTGGCATATCAACAGCCTGTGTTTCTCCCTGGGGCCTTCATGCAGCAAGGATGTGACATTTCCCC
 CAGGTCCTGTCCGACGCATCGTCGGCGGCTGCTGGTGGTTCTTCACTTTGATCATCATCTCCTCGTAC
 ACAGCCAACCTGGCTGCCTTCTGACTGTGGAGAGGATGGTGTCTCCATTGAGAGTGCAGAGGACCTGG
 CAAAGCAGACGGAATGCTTATGGGACATTGGAAGCAGGCTCCACTAAGGAGTTCTTCCAGGAGATCTAA
 AATCGCTGTGTTGAGAAGATGTGGACATACATGAAGTCTGCAGAACCATCCGTGTTTGTTCGGACCACA
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 CATGCAATCCATCCTGCATGAGTACAGTTCAGGGATGCCCTTGGGAGCCACAGGATTGCATGCAATC
 CATTCCCTGCATGAGTACAGTTCAGGGATGCCCTTGGGAGCCACAGGATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR201958 representing NM_031608
 Red=Cloning site Green=Tags(s)

MPYIFAFFCTGFLGAVVGANFPNNIQIGGLFPNQSQEHAARFALSQLEPPKLLPQIDIVNISDSFEM
 TYRFCSQFSKGVYAIIFGFYERRTVNMLTSCGALHVCFITPSFPVDTSNQFVQLRPELQEALISIIDHY
 KWQTFVYIYDADRGLSVLQQRVLDAAEKNQVAVNILLTTEEGYRMLFQDLEKKKERLVVVDCESENLN
 AILGQIVKLEKNGIGYHYILANLGFMDIDLNKFKEGAVNTGFQLVNYTDTIPARIMQQWRTSDSRDHTR
 VDWRPKYTSALTYDGVKVMAEAFQSLRRQRIDISRRGNAGDCLANPAVPWGGIDIQRALQQVRFEGLT
 GNVQFNEKGRRTNYTLHVIEMKHDGIRKIGYWNEDDKFVPAATDAQAGDNSSVQNRTYIVTTILEDPYV
 MLKKNANQFEGNDRYEGYCVELAAEIAKHVGYRLEIVSDGKYGARDPDTKAWNGMVGELVYGRADVAV
 APLTITLVREEVIDFSKPFMSLGISIMIKKPKQSKPGVFSFLDPLAYEIWMCIVFAYIGVSVVLFLVSRF
 SPYEWHSSEEFEEGRDQTTSDQSNFEGIFNSLWFSLGAFMQGCDISPRSLSGRIVGGVWFFTLIISSY
 TANLAAFLTVERMVSPIESAEDLAKQTEIAYGTLEAGSTKEFFRRSKIIVFEKMWYMKSAEPSVFRVT
 EEGMIRVRKSKGKYAYLLESTMNEYIEQRKPCDTMKVGGNLDKSGYGIATPKGSALRNPVNLAVLKLNEQ
 GLLDKLKNKWWYDKGECGSGGGGSKDKTSALSLSNVAGVFYILIGGLGLAMLVALIEFCYKSRSESKRMK
 GFCLIPQQSINEAIRSTLPRNSGAGASGGGGSGENRVSQDFPKSMQSI PCMSHSSGMPLGATGLHAI
 HSLHESQFRDALGSHRI

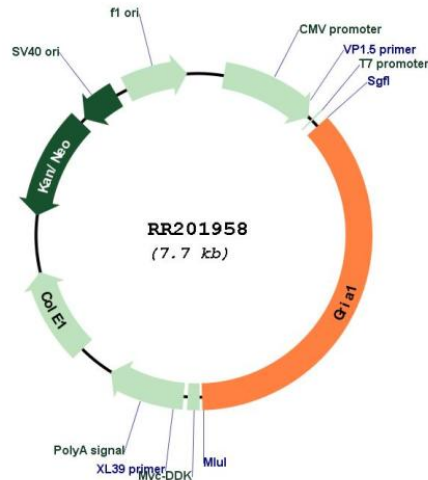
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031608

ORF Size: 2721 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 Size: 2992 bp

RefSeq ORF: 2724 bp

Locus ID: 50592

UniProt ID: [P19490](#)

Cytogenetics: 10q22

MW: 101.6 kDa

Gene Summary: mouse homolog may play a role in regulation of neuronal synaptic plasticity and conditioned reinforcement learning [RGD, Feb 2006]