

Product datasheet for **MR225583**

Gria1 (NM_001113325) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria1 (NM_001113325) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gria1
Synonyms:	2900051M01Rik; Glr-1; Glr1; GluA1; Glur-1; GluR-A; gluR-K1; Glur1; GluRA; HIPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225583 representing NM_001113325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGTACATCTTTGCCTTTTTCTGCACCGTTTTCTAGGTGCGGTTGTGGGTGCCAATTTCCCAACA
 ATATCCAGATAGGGGATTATTTCCAAACCAACAATCACAGGAACATGCGGCTTTTAGGTTTGCTTTGTC
 ACAACTCACGGAGCCCCCAAGCTGCTTCCCCAGATCGATATTGTGAACATCAGCGACAGCTTTGAGATG
 ACTTACCGATTCTGTTCCAGTTCTCCAAAGGAGTGACGCCATCTTTGGATTTTATGAACGAAGGACTG
 TCAACATGCTGACCTCCTTCTGTGGGGCCTCCATGTGTGCTTCATCACTCCAAGTTTTCCCGTTGACAC
 ATCCAATCAGTTTGTCTTCAGCTGCGCCCGAACTACAGGAAGCTCTCATTAGCATTATCGACCATTAC
 AAGTGGCAGACTTTTGTCTACATTTATGATGCTGACCGGGCCTGTCAGTCTGCAGAGAGTCTTGATA
 CAGCCCGCGAGAAGAAGTGGCAGGTGACGGCTGTCAACATTCTAACACCCAGGAGGAAGGATACCGGAT
 GCTCTTTCAGGACCTGGAGAAGAAAAGGAGAGGCTGGTGGTGGTGGACTGTGAATCAGAACGCCTCAAC
 GCCATCCTGGGCCAGATTGTGAAGCTAGAAAAGAACGGCATCGGGTACCACTACATCCTCGCCAACCTGG
 GCTTCATGGACATTGACTTAAATAAGTTCAAGGAGAGTGGAGCCAATGTGACAGGTTTTCCAACTGGTGAA
 CTACACAGACACGATCCCAGCCAGAATCATGCAGCAGTGGAGGACAAGTACGCTCGGGACCACACCAGG
 GTGGACTGGAAGAGGCCAAAGTACACTTCTGCTTACCTATGATGGTGTGAAGGTGATGGCGGAGGCCCT
 TCCAGAGCCTGCGGAGGCAGAGGATTGACATATCCCGGCGAGGGAATGCTGGGGACTGTCTGGCTAACCC
 AGCTGTGCCCTGGGGCCAAGGGATCGACATCCAGAGAGCCCTGCAGCAGGTGCGCTTTGAAGTTTGACA
 GGAAATGTGCAGTTTAAACGAGAAAAGGGCGCCGACCAACTACACCCTCCATGTGATCGAAATGAAGCATG
 ATGGAAATCCGCAAGATTGGTTACTGGAATGAAGATGATAAATTTGTCGCCGACCCAGGACGCTCAGG
 TGGAGGGGACAACCTCAAGCGTCCAGAATAGAACCTACATCGTCACGACTATCCTCGAAGATCCTTACGTTG
 ATGCTTAAAAAGAATGCCAACCAATTTGAAGGCAATGACCCTATGAGGGCTACTGCGTGGAACTGGCTG
 CGGAGATCGCCAAGCACGTGGGCTATTCTACCGACTTGAGATTGTGAGCAGCGCAAATACGGAGCCCG
 GGATCCTGACACAAGGCCTGGAATGGCATGGTGGGAGAGCTAGTCTATGGAAGAGCAGATGTGGCGGTG
 GCCCCTTGACCATAACCTTGGTCCGGGAGGAAGTCACTGACTTCTCCAAGCCATTCATGAGTTTGGGAA
 TCTCCATTATGATTAAGAAGCCACAGAAGTCCAAGCCAGGTGCTTCTCCTTTCTTGACCCTTTGGCCTA
 CGAGATCTGGATGTGTATAGTGTTCCTACATTGGAGTGAGCGTCGCTCTTCTTCTGTCAGCCGTTTC
 AGTCTTATGAATGGCACAGTGAAGAGTTTGAAGAAGGACGAGATCAGACAACCAGTGACCAGTCAAATG
 AGTTTGGCATATTC AACAGCCTGTGTTCTCGCTGGGGCCTTCATGCAGCAAGGATGTGACATTTCCCC
 CAGGTCCTGTCTGGACGCATCGTCGGCGGTGTCTGGTGGTTCTTCACTTTGATTATCATCTCCTCATA
 ACAGCCAACCTGGCTGCCTTCTGACTGTGAAAAGGATGGTGTCTCCCATCGAGAGTGCAGAGGACCTGG
 CAAAGCAGACGGAATGCTTATGGGACATTGGAAGCAGGATCCACTAAGGAGTTCTTCAGGAGGTCTAA
 AATCGCTGTGTTGAGAAGATGTGGACATACATGAAGTCTGCAGAACCGTCTGTGTTTGTTCGGACCACA
 GAGGAGGGCATGATCAGAGTGAGAAAGTCTAAAGGCAAATATGCCTACCTCCTGGAGTCCACCATGAATG
 AGTACATTGAGCAACGCAAGCCCTGTGACACCATGAAAGTGGGAGGTAACCTGGATTCCAAGGCTATGG
 CATTGCAACACCCAAGGGTCCGCCCTGAGAGTCCCGTAAACCTAGCGGTTTTGAAACTCAGTGAGCAA
 GGCGTCTTAGACAAGCTGAAAAGCAAATGGTGGTACGATAAAGGGGAATGTGGAAGCAAGGACTCCGGAA
 GTAAGGACAAGACCAGTCTCTGAGCCTGAGCAATGTGGCAGGCGTGTCTACATCCTGATTGGAGGGCT
 GGGATTGGCCATGCTGGTTGCCTTAATCGAGTTCTGCTACAAATCCCGTAGCGAGTGAAGCGGATGAAG
 GTTTTCTGTTGATTCCACAGCAATCCATCAATGAAGCCATACGGACATCGACCTCCCCAGGAACAGCG
 GGGCAGGAGCCAGCGGAGGAAGTGGCAGTGGAGAGAATGGCAGAGTGGTCAAGCAGGACTCCCCAAGTC
 CATGCAATCCATTCCTGCATGAGCCACAGTTCAGGGATGCCCTGGGAGCCACAGGATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225583 representing NM_001113325
 Red=Cloning site Green=Tags(s)

MPYIFAFFCTGFLGAVVGANFPNNIQIGGLFPNQSQEHAARFALSQLEPPKLLPQIDIVNISDSFEM
 TYRFCSQFSKGVYAIIFGFYERRTVNMLTSFCGALHVCFITPSFPVDTSNQFVLQLRPELQEALISIIDHY
 KWQTFVYIYDADRGLSVLQQRVLDAAEKNWQVTAVNILTTTEGYRMLFQDLEKKKERLVVVDCESERLN
 AILGQIVKLEKNGIGYHYILANLGFMDIDLNKFKEGSANVTGFQLVNYTDTIPARIMQQWRTSDARDHTR
 VDWRPKYTSALTYDGVKVMAEAFQSLRRQRIDISRRGNAGDCLANPAVPWQGQIDIQRALQQVRFEGLT
 GNVQFNEKGRRTNYTLHVIEMKHDGIRKIGYWNEDDKFVPAATDAQAGDNSSVQNRTYIVTTILEDPYV
 MLKKNANQFEGNDRYEGYCVELAAEIAKHVGYRLEIVSDGKYGARDPDTKAWNGMVGELVYGRADVAV
 APLTITLVREEVIDFSKPFMSLGISIMIKKPKQSKPGVFSFLDPLAYEIWMCIVFAYIGVSVVFLVSRF
 SPYEWHSSEEFEEGRDQTSDQSNEFGIFNSLWFSLGAFMQQCDISPRSLSGRIVGGVWFFTLIISSY
 TANLA AFLTVERMVSPIESAEDLAKQTEIAYGTLEAGSTKEFFRRSKIIVFEKMWTYMKSAEPSVFRVT
 EEGMIRVRKSKGKYAYLLESTMNEYIEQRKPCDTMKVGGNLDKSGYGIATPKGSALRGPVNLAVLKLSEQ
 GVLDKLKSWWWYDKGECGSKDSGSKDKTSALSLSNVAGVFYILIGGLGLAMLVALIEFCYKSRSESKRMK
 GFCLIPQQSINEAIRTSTLPRNSGAGASGGSGSGENGRVVSQDFPKSMQSI PCMSHSSGMPLGATGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

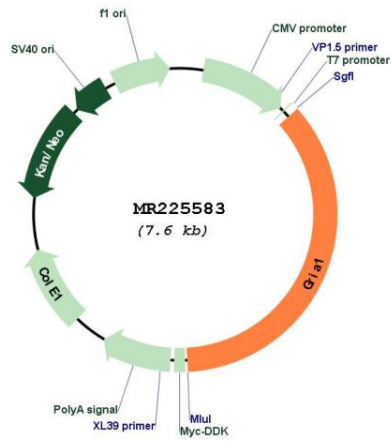


* The last codon before the Stop codon of the ORF

ACCN: NM_001113325

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:	<ol style="list-style-type: none">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_001113325.2 , NP_001106796.1
RefSeq Size:	5755 bp
RefSeq ORF:	2724 bp
Locus ID:	14799
UniProt ID:	P23818
Cytogenetics:	11 34.51 cM
MW:	102 kDa
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]

Product images:



Circular map for MR225583