

Product datasheet for **MR231320**

Gria3 (NM_001281929) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria3 (NM_001281929) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gria3
Synonyms:	2900064I19Rik; Glu; GluA3; Glur; Glur-3; GluR-C; GluR-K3; Glur3; Gluralpha3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR231320 representing NM_001281929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAAAGCGTGTCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGGGTCAATCTCACGGAGGAT
 TCCCAACACCATTAGCATAGGTGGACTTTTCATGAGAAAACACGGTACAGGAGCACAGTGTCTCCGCTT
 TGCTGTGCAGTTATACAACCAACCAAGAACCACTGAGAAGCCCTTCATTTGAACTACCACGTAGAC
 CACTTGGATTCTCCAATAGTTTTCTGTGACTAATGCTTTCTGCTCCAGTTCTCCAGAGGGGTATG
 CTATCTTTGGATTCTATGACCAGATGTCAATGAACACACTGACCTCCTTCTGTGGGGCCCTGCATACATC
 TTTCTGTCACACCTAGCTTTCCCACTGATGCCGATGTGCAGTTTGTTCATCCAGATGCGCCAGCCTTAAAG
 GGTGCCATTCTGAGTCTTCTGGTTACTACAAGTGGGAGAAGTTGTGTACCTCTATGACACAGAACGAG
 GGTTCATCCTGCAAGCAATTATGGAAGCAGCAGTGCAAAACAACCTGGCAAGTGACAGCAAGGTCTGT
 GGGAAACATAAAGGACATCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA
 TACTTGATTGACTGTGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTGTGATCCTGGGGAAACATT
 CAAGAGGTTATCACTACATGCTTGTAACTGGGTTTTACTGACATTGTACTGGAAGAGTCATGCATGG
 GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCAATGGTCCAGCAATTCATACAGCGC
 TGGGTGAGACTGGATGAAAGGGAATTCCTGAAGCCAAGAATGCACCACTAAAGTATACATCTGCACTGA
 CACACGACGCAACTACTGGTCATAGCAGAAGCCTCCGATACCTGAGGAGGCAGCGAGTGGATGTATCCCG
 CAGAGGCAGTGTGGAGACTGCTTAGCAAACTCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA
 GCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGAGTGGACAA
 ATTATACCATTGATGTATATGAAATGAAAGTCTCAGGCTCTCGAAAAGCTGGTTACTGGAATGGTATGA
 AAGGTTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCCGAGAACAGGACCATCGTA
 GTGACTACCATTCTGGAATCACCATATGTAAATGTAAAAAGAATCATGAGCAACTGGAAGGAAATGAGC
 GCTATGAAGGCTATTGTGTGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC
 CATTGTGCGGTGATGGGAAATATGGCGCAAGGGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA
 CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTCACTATAACATTGGTCCGTGAAGAAGTCATAG
 ATTTTTCAAAGCCATTTATGAGCCTGGGATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG
 CGTATTTTCATTCTGGATCCTTTAGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC
 AGTGTAGTTCTTCTAGTCAGCAGATTTAGCCCTTATGAGTGGCACTTGAAGACAACAATGAAGAAC
 CTGCTGACCCACAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCTT
 GGGTGCTTTTATGCAGCAAGGATGTGATATTTCTCCAAGTCACTTTCTGGGCGCATTGTTGGAGGGTT
 TGGTGGTCTTACCCTGATCATAATCTCTTCTACACTGCAAACCTTGCTGCTTTCTGACTGTGGAGA
 GGATGGTGTCCCCATAGAGAGCGCTGAAGATTAGCCAAGCAGACTGAAATTGCATACGGGACCCTGGA
 CTCTGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATGCTGTGTATGAGAAAATGTGGTCTTACATG
 AAATCCGCAGAGCCATCTGTGTTTACAAAACAACAGCTGATGGGGTAGCCCGAGTTCGGAAGTCCAAGG
 GAAAGTTGCCTTCTGCTGGAGTCAACCATGAATGAGTACATTGAGCAGAGAAAAGCCGTGTGATACGAT
 GAAAGTTGGTGGAAATCTGGATTCAAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAACG
 CCTGTAAACCTTGCAAGTATTGAAACTCAGTGAACAAGGCATCTTAGACAAGCTGAAAAACAATGGTGGT
 ACGATAAGGGGAATGTGGAGCCAAGGACTCCGGGAGTAAGGACAAGACCAAGTGTCTAAGCCTGAGCAA
 TGTGGCAGGCGTGTCTATATACTTGTCCGAGGCTCTGGGGCTGGCCATGATGGTGGCTTTGATAGAATTC
 TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAGAACACCCAAAACCTTTAAGCCTGCTC
 CTGCCACCAACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTAA
 GATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231320 representing NM_001281929
 Red=Cloning site Green=Tags(s)

MGQSVLRAVFFLVLLGLLGHSHGGFPNTISIGGLFMRNTVQEHSFRFAVQLYNTNQNTTEKPFHLNYHVD
 HLDSSNSFSVTNAFCSQFSRGVYVIFGFYDQMSMNTLSFCGALHTSFVTPSFPTDADVQFVIQMRPALK
 GAILSLGYYKWEKFVYLYDTERGFSILQAIMAAVQNNWQVTARVGNIKDIQEFRRRIEEMDRRQEKR
 YLIDCEVERINTILEQVVILGKHSRGYHYMLANLGFTDIVLERVMHGGANITGFQIVNENPMVQQFIQR
 WVRLDEREFPEAKNAPLKYSALTHDAILVIAEAFRYLRRQRVDVSRRGSAGDCLANPAVPWSQGIDIER
 ALKMVQVQGMTGNIQFDYGRRTNYTIDVYEMKVSGRKAGYWNEYERFVPFSDQQISNDSSSENRTIV
 VTTILESPYVMYKKNHEQLEGNERYEGYCVDLAYEIAKHVRIKYKLSIVGDGKYGARDPETKIWNMGVGE
 LYYGRADI AVAPLTITLVREEVIDFSKPFMSLGISIMIKKPKQSKPGVFSFLDPLAYEIWMCIVFAYIGV
 SVVLFVSRFSPYEWHLNNEEPRDPQSPDPNFEFGIFNSLWFSLGAFMQGCDISPRSLSGRIVGGV
 WWFFTLIISSYANLAAFLTVERMVSPIESAEDLAKQTEIAYGTLDSGSTKEFFRRSKIAYVEKMWSYM
 KSAEPSVFTKTTADGVARVRKSKGKFAFLLESTMNEYIEQRKPCDTMKVGGNLDKSGYGVATPKGSALGT
 PVNLAVLKLSEQILDKLKNWYDKGECGAKDSGSKDKTSALSLSNVAGVFYILVGGLGLAMMVALIEF
 CYKSRAESKRMKLTKNQNFKPAPATNTQNYATYREGYVNYGTESVKI

TRTRP**LEQKLISEEDLAANDILDYKDDDDK**V

Restriction Sites:

SgfI-MluI

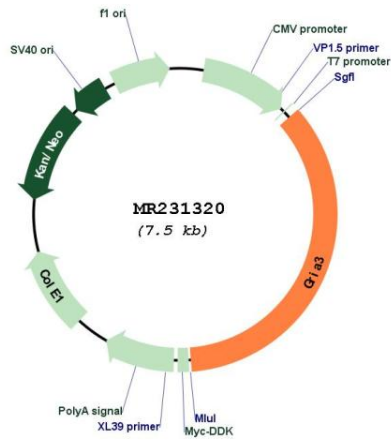
Cloning Scheme:



ACCN: NM_001281929

ORF Size:	2664 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_001281929.1 , NP_001268858.1
RefSeq Size:	5224 bp
RefSeq ORF:	2667 bp
Locus ID:	53623
UniProt ID:	Q9Z2W9
Cytogenetics:	X 23.19 cM
MW:	100.4 kDa
Gene Summary:	This gene encodes a multi-pass transmembrane protein that forms a homotetramer or heterotetramer in neuronal cells. The encoded protein is a ligand-gated ion channel that responds to the neurotransmitter L-glutamate to promote synaptic transmission. Deficiency of this gene leads to behavioral phenotypes. The transcript is subject to RNA editing at codon 769 (AGA->GGA; R->G). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for MR231320