

Product datasheet for **MR222749**

Gria3 (NM_016886) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gria3 (NM_016886) 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:

>MR222749 representing NM_016886
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAAAGCGTGTCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGGGTCAATCTCACGGAGGAT
 TCCCAAACACCATCAGCATAGGTGGACTTTTCATGAGAAAACACGGTACAGGAGCACAGTGTCTTCCGCTT
 TGCTGTGCAGTTATACAACCAACCAAGAACCACTGAGAAGCCCTTCCATTTGAACTACCACGTAGAC
 CACTTGGATTCTCCAATAGTTTTTCTGTGACTAATGCTTTCTGCTCCAGTTCTCCAGAGGGGTATG
 CTATCTTTGGATTCTATGACCAGATGTCAATGAACACACTGACCTCCTTCTGTGGGGCCCTGCATACATC
 TTTCTGTCACACCTAGCTTTCCCACTGATGCCGATGTGCAGTTTGTTCATCCAGATGCGCCAGCCTTAAAG
 GGTGCCATTCTGAGTCTTCTGGTTACTACAAGTGGGAGAAGTTGTGTACCTCTATGACACAGAACGAG
 GGTTCATCCTGCAAGCAATTATGGAAGCAGCAGTGCAAAACAACCTGGCAAGTGACAGCAAGGTCTGT
 GGGAAACATAAAGGACATCCAGGAATTCAGACGCATCATTGAAGAAATGGACAGAAGGCAGGAAAAACGA
 TACTTGATTGACTGTGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTGTGATCCTGGGGAAACATT
 CAAGAGGTTATCACTACATGCTTGTAACTGGGTTTTACTGACATTGTACTGGAAGAGTCATGCATGG
 GGGAGCCAACATTACAGGTTTCCAGATTGTCAACAATGAAAACCAATGGTCCAGCAATTCATACAGCGC
 TGGGTGAGACTGGATGAAAGGGAATTCCTGAAGCCAAGAATGCACCACTAAAGTATACATCTGCACTGA
 CACACGACGCAACTACTGGTCATAGCAGAAGCCTCCGATACCTGAGGAGGCAGCGAGTGGATGTATCCCG
 CAGAGGCAGTGTGGAGACTGCTTAGCAAACTCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGA
 GCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAACATCCAATTTGACACTTATGGAGTGGACAA
 ATTATACCATTGATGTATATGAAATGAAAGTCTCAGGCTCTCGAAAAGCTGGTTACTGGAATGGATGTA
 AAGGTTTTGTGCCCTTCTCAGATCAACAAATCAGCAATGACAGCTCATCCTCCGAGAACAGGACCATCGTA
 GTGACTACCATTCTGGAATCACCATATGTAAATGTAAAAAGAATCATGAGCAACTGGAAGGAAATGAGC
 GCTATGAAGGCTATTGTGTCGATTTAGCCTATGAAATAGCCAAACACGTAAGGATCAAATACAAATTGTC
 CATTGTCCGGTATGGGAAATATGGCGCAAGGGATCCAGAGACTAAAATATGGAATGGCATGGTTGGGGAA
 CTTGTCTATGGAAGAGCTGATATAGCTGTTGCTCCACTCACTATAACATTGGTCCGTGAAGAAGTCATAG
 ATTTTTCAAAGCCATTTATGAGCCTGGGATCTCCATCATGATAAAGAAGCCTCAGAAATCAAAGCCAGG
 CGTATTTTCATTCTGGATCCTTTAGCTTATGAAATCTGGATGTGCATTGTCTTCGCTTACATTGGAGTC
 AGTGTAGTTCTTCTCCTAGTCAGCAGATTTAGCCCTTATGAGTGGCACTTGAAGACAACAATGAAGAAC
 CTGCTGACCCACAAGCCCTCCTGATCCTCCCAATGAATTTGGAATATTTAACAGTCTTTGGTTTTCTT
 GGGTGCTTTTATGCAGCAAGGATGTGATATTTCTCCAAGATCACTTTCTGGGCGCATTGTTGGAGGGTT
 TGGTGGTCTTACCCTGATCATAATCTTCTTCTACACTGCAAACCTTGCTGCTTTCTGACTGTGGAGA
 GGATGGTGTCCCCATAGAGAGCGCTGAAGATTAGCCAAGCAGACTGAAATTGCATACGGGACCCTGGA
 CTCTGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATTGCTGTGTATGAGAAAATGTGGTCTTACATG
 AAATCCGCAGAGCCATCTGTGTTTACAAAACAACAGCTGATGGGGTAGCCCGAGTTCGGAAGTCCAAGG
 GAAAGTTCGCCTTCTGCTGGAGTCAACCATGAATGAGTACATTGAGCAGAGAAAAGCCGTGTGATACGAT
 GAAAGTTGGTGGAAATCTGGATTCCAAAGGCTATGGTGTGGCAACCCCTAAAGGCTCAGCATTAGGAACG
 CCTGTAACCTTGCAGTATTGAAACTCAGTGAACAAGGCATCTTAGACAAGCTGAAAAACAATGGTGGT
 ACGATAAGGGGAATGTGGAGCCAAGGACTCCGGGAGTAAGGACAAGACCAGTGTCTAAGCCTGAGCAA
 TGTGGCAGGCGTGTCTATATACTTGTCCGAGGCTCTGGGGCTGGCCATGATGGTGGCTTTGATAGAATTC
 TGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAGAACACCCAAAACCTTTAAGCCTGCTC
 CTGCCACCAACTCAGAATTACGCTACATACAGAGAAGGCTACAACGTGTATGGAACAGAAAGTGTAA
 GATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222749 representing NM_016886
 Red=Cloning site Green=Tags(s)

MGQSVLRAVFFLVLLGSHSHGGFPNTISIGGLFMRNTVQEHSARFRAVQLYNTNQNTTEKPFHLNYHVD
 HLDSSNSFSVTNAFCSQFSRQVYVIFGFYDQMSMNTLSFCGALHTSFVTPSFPTDADVQFVIQMRPALK
 GAILSLGYYKWEKFVYLYDTERGFSILQAI MEAAVQNNWQVTARVGNIKDIQEFRIIEEMDRRQEKR
 YLIDCEVERINTILEQVVILGKHSRGYHYMLANLGFDTIVLERVMHGGANITGFQIVNNENPMVQQFIQR
 WVRLDEREFPEAKNAPLKYTSALTHDAILVIAEAFRYLRRQRVDVSRSGSAGDCLANPAVPWSQGIDIER
 ALKMVQVQGMTGNIQFDTYGRRTNYTIDVYEMKVSGRKAGYWNEYERFVPFSDQQISNDSSSENRTIV
 VTTILESPYVMYKKNHEQLEGNERYEGYCVDLAYEIAKHVRIKYKLSIVGDGKYGARDPETKIWNMGVGE
 LVYGRADI AVAPLTITLVREEVIDFSKPFMSLGISIMIKKPKQSKPGVFSFLDPLAYE I WMCIVFAYIGV
 SVVLFLVSRFSPYEWHL EDNNEEPRDPQSPPDPNEFGIFNSLWFSLGAFMQGCDISPRSLSGRIVGGV
 WWFFTLIISSYTANLAAFLTVERMVSPIESAEDLAKQTEIAYGTLDSGSTKEFRRSKI AVYEKMWSYM
 KSAEPSVFTKTTADGVARVRKSKGKFAFLLESTMNEYIEQRKPCDTMKVGGNLD SKGYGVATPKGSALGT
 PVNLAVLKLSEQILDKLKNWYDKGECGAKDSGSKDKTSALSLSNVAGVFYILVGGLGLAMMVALIEF
 CYKSRAESKRMLTKNTQNFKPAPATNTQNYATYREGYNYVYGTESVKI

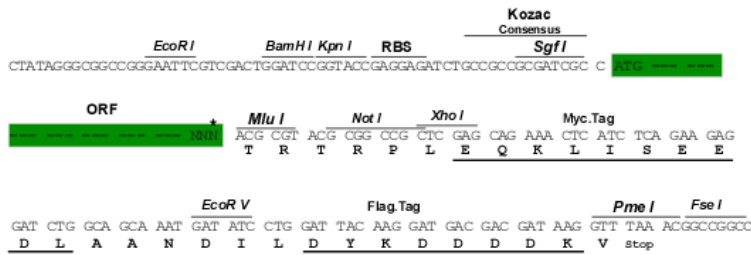
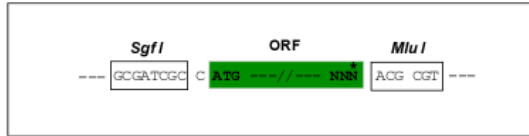
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

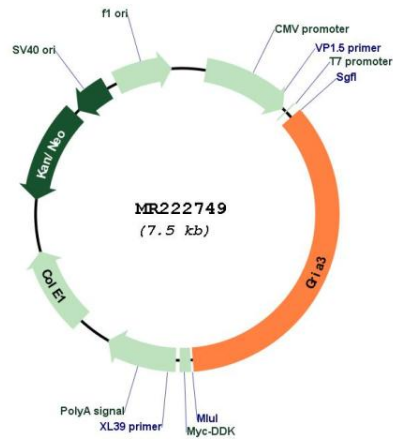


* The last codon before the Stop codon of the ORF

ACCN: NM_016886

ORF Size:	2664 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_016886.4 , NP_058582.3
RefSeq Size:	5213 bp
RefSeq ORF:	2667 bp
Locus ID:	53623
UniProt ID:	Q9Z2W9
Cytogenetics:	X 23.19 cM
MW:	100.4 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR222749