

Product datasheet for **RC234938**

GRIA1 (NM_001258019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIA1 (NM_001258019) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRIA1
Synonyms:	GluA1; GLUH1; GLUR1; GLURA; HBGR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC234938 representing NM_001258019
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGCACATTTTTGCCTTCTTCTGCACCGGTTTCTAGGCGCGGTAGTAGGTCCAATTTCCCAACA
ATATCCAGATCGGGGATTATTTCCAAACCAGCAGTCACAGGAACATGCTGCTTTTAGATTGCTTTGTC
GCAACTCACAGAGCCCCGAAGCTGCTCCCCAGATTGATATTGTGAACATCAGCGACAGCTTTGAGATG
ACCTATAGATGCTTATCCGTCCTGCAGAAAGTCTGGATACAGCTGCTGAGAAGAACTGGCAGGTGACAG
CAGTCAACATTTTGACAACCACAGAGGAGGATACCGGATGCTCTTTAGGACCTGGAGAAGAAAAAGGA
GCGGCTGGTGGTGGTGGACTGTGAATCAGAACGCCTCAATGCTATCTTGGGCCAGATTATAAAGCTAGAG
AAGAATGGCATCGGCTACCACTACATTCTGCAAATCTGGGCTTCATGGACATTGACTTAAACAAATTCA
AGGAGAGTGGCGCAATGTGACAGGTTCCAGCTGGTGAACACACAGACTATTCCGGCCAAGATCAT
GCAGCAGTGAAGAATAGTGATGCTCGAGACCACACCGGTGGACTGGAAGAGACCCAAGTACACCTCT
GCGCTCACCTACGATGGGGTGAAGGTGATGGCTGAGGCTTCCAGAGCCTGCGGAGGCAGAGAATTGATA
TATCTCGCCGGGGGAATGCTGGGGATTGTCTGGCTAACCCAGCTGTTCCCTGGGGCCAAGGGATCGACAT
CCAGAGAGCTCTGCAGCAGGTGCGATTTGAAGGTTAACAGGAAACGTGCAGTTTAAATGAGAAAAGGACGC
CGGACCAACTACACGCTCCACGTGATTGAAATGAAACATGACGGCATCCGAAAGATTGGTTACTGGAATG
AAGATGATAAGTTTGCCTGCAGCCACCGATGCCAAGCTGGGGCGATAATCAAGTGTTCAGAACAG
AACATACATCGTCACAACAATCCTAGAAGATCCTTATGTGATGCTCAAGAAGAACGCCAATCAGTTTGAG
GGCAATGACCGTTACGAGGGCTACTGTGTAGAGCTGGCGGCAGAGATTGCCAAGCAGTGGGCTACTCCT
ACCGTCTGGAGATTGTCAGTGATGGAATAACGGAGCCCGAGACCCTGACACGAAGCCCTGGAATCGCAT
GGTGGGAGAGCTGGTCTATGGAAGAGCAGATGTGGCTGTGGCTCCCTTAACTATCACTTTGGTCCGGGAA
GAAGTTATAGATTTCTCCAAACATTTATGAGTTTGGGGATCTCCATCATGATTAAAAAACACAGAAAT
CCAAGCCGGGTGCTTCTCCTTCTTGATCCTTTGGCTTATGAGATTTGGATGTGCATTGTTTTGCCTA
CATTGGAGTGAGTGTTCCTTCTTCTGGTCAGCCGCTCAGTCCCTATGAATGGCACAGTGAAGAGTTT
GAGGAAGGACGGGACCAGACAACCAAGTACCAGTCCAATGAGTTTGGGATATTCAACAGTTTGTGGTTCT
CCCTGGGAGCCTTCATGCAGCAAGGATGTGACATTTCTCCAGGTCCTGTCTGGTCGCATCGTTGGTGG
CGTCTGGTGGTTCTTACCTTAATCATCATCTCCTCATATACAGCCAATCTGGCCGCTTCTGACCGTG
GAGAGGATGGTGTCTCCATTGAGAGTGCAGAGGACCTAGCGAAGCAGACAGAAATGCCTACGGGACGC
TGAAGCAGGATCTACTAAGGAGTCTTTCAGGAGTCTAAAATTGCTGTGTTGAGAAGATGTGGACATA
CATGAAGTCAGCAGAGCCATCAGTTTTTGTGCGGACCACAGAGGAGGGGATGATTCGAGTGAAGAAATCC
AAAGGCAAAATATGCCTACCTCCTGGAGTCCACCATGAATGAGTACATTGAGCAGCGGAAACCTGTGACA
CCATGAAGGTGGGAGGTAACCTGGATTCCAAAGGCTATGGCATTGCAACACCCAAGGGGTCTGCCCTGAG
AAATCCAGTAAACCTGGCAGTGTAAAACCTGAACGAGCAGGGGCTTTTGGACAAATTGAAAAACAAATGG
TGGTACGACAAGGGCGAGTGCAGCAGCGGGGAGGTGATTCGAAGGACAAGACAAGCGCTCTGAGCCTCA
GCAATGTGGCAGGCGTGTCTACATCCTGATCGGAGGACTGGACTAGCCATGCTGGTTGCCTTAATCGA
GTTCTGCTACAAATCCCAGTGAATCCAAGCGGATGAAGGTTTTTGTGTTGATCCACAGCAATCCATC
AACGAAGCCATACGGACATCGACCCTCCCCGCAACAGCGGGGCAGGAGCCAGCAGCGGGCGCAGTGGAG
AGAATGGTCGGTGGTACGCCATGACTTCCCAAGTCCATGCAATCGATTCTTGCATGAGCCACAGTTC
AGGGATGCCCTTGGGAGCCACGGGATTG

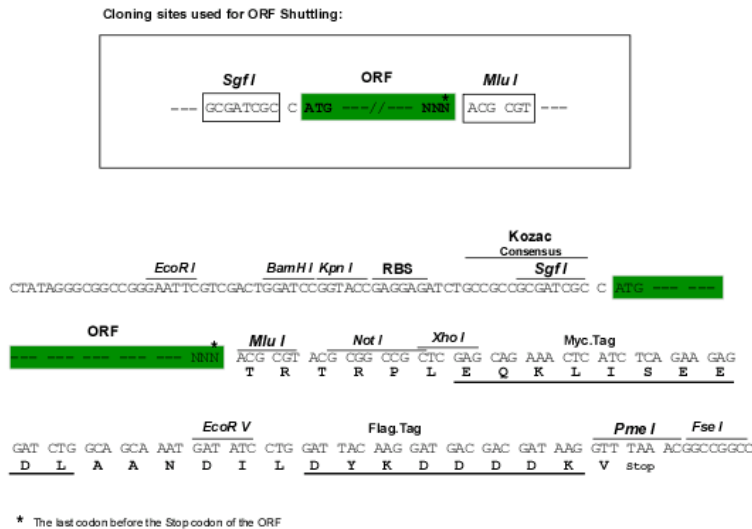
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234938 representing NM_001258019
 Red=Cloning site Green=Tags(s)

MQHIFAFFCTGFLGAVVGANFPNNIQIGGLFPNQSQEHAARFALSQLETPPKLLPQIDIVNISDSFEM
 TYRCLSVLQKVLDTAAEKNWQVTAVNILTTTEEGYRMLFQDLEKKKERLVVVDCESERLNAILGQIIKLE
 KNGIGYHYILANLGFMDIDLNFKESGANVTGFQLVNYTDTIPAKIMQQWKNSDARDHTRVDWKRPKYTS
 ALTYDGVKVMAEAFQSLRRQRIDISRRGNAGDCLANPAVPWGGQIDIQRALQQVRFEGLTGNVQFNEKGR
 RTNYTLHVIEMKHDGIRKIGYWNEDDKFVPAATDAQAGGDNSSVQNRTYIVTTILEDPYVMLKKNANQFE
 GNDRYEGYCVELAAEIAKHVGSYRLEIVSDGKYGARDPDTKAWNGMVGELVYGRADVAVAPLTITLVRE
 EVIDFSKPFMSLGISIMIKKPQKSKPGVFSFLDPLAYEIWMCIVFAYIGVSVVFLVSRFSPYEWHSEEF
 EGRDQTTSDQSNEFGIFNSLWFSLGAFMQGCDISPRSLSGRIVGGVWVFFTLIISSYANLAAFLT
 ERMVSPIESAEDLAKQTEIAYGTLEAGSTKEFFRRSKIAVFEKMWTYMKSAEPSVVRTTEEGMIRVRKS
 KGGYAYLLESTMNEYIEQRKPCDTMKVGGNLDKGYGIATPKGSALRNPVNLAVLKLNEQGLLDKLNKW
 WYDKGECGSGGDSKDKTSALSLSNVAGVFYILIGGLGLAMLVALIEFCYKSRSESKRMKGFLIPQQSI
 NEAIRTSTLPRNSGAGASSGGSGENGRVVSDFPKSMQSI PCMSHSSGMPLGATGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001258019

ORF Size: 2478 bp

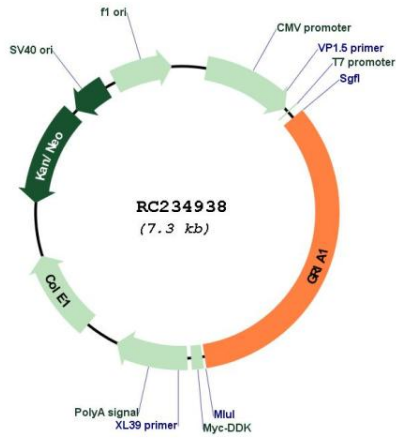
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001258019.1 , NP_001244948.1
RefSeq Size:	5507 bp
RefSeq ORF:	2481 bp
Locus ID:	2890
UniProt ID:	P42261
Cytogenetics:	5q33.2
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction
MW:	92.6 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 with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234938