

Product datasheet for **RC225709**

GRIA4 (NM_001112812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIA4 (NM_001112812) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRIA4
Synonyms:	GluA4; GluA4-ATD; GLUR4; GLUR4C; GLURD; NEDSGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225709 representing NM_001112812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGATTATTTCCAGACAGATTGCTCTGTTATTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC
 CGAGCAGCGTGCAAATAGGTGGTCTTTCATCCGAAACACAGATCAGGAATACACTGCTTTTCGATTAGC
 AATTTTTCTTCATAACACCAGCCCAATGCGTCGGAAGCTCCTTTAATTTGGTACCTCATGTGGACAAC
 ATTGAGACAGCCAACAGTTTTGCTGTAACAAACGCCTTCTGTTCCAGTATTCTAGAGGAGTATTTGCCA
 TTTTGGACTCTATGATAAGAGGTCGGTACATACCTTGACCTATTCTGCAGCGCCTTACATATCTCCCT
 CATCACACCAAGTTCCCTACTGAGGGGAGAGCCAGTTGTGCTGCAACTAAGACCTTCGTTACGAGGA
 GCACTCTTGAGTTGCTGGATCACTACGAATGGAAGTGTGTTGCTTCTGTATGACACAGACAGGGGAT
 ACTCGATACTCCAAGCTATTATGAAAAAGCAGGACAAAATGGTTGGCATGTCAGCGCTATATGTGTGGA
 AAATTTAATGATGTCAGCTATAGGCAACTTCTAGAAGAACTTGACAGAAGACAAGAGAAGAGTTGTA
 ATAGACTGTGAGATAGAGAGACTTCAAACATATTAGAACAGATTGTAAGTGTGGAAAGCATGTTAAAG
 GCTACCATTATATCATTGCAAACCTGGGATTCAAGGATATTTCTCTTGAGAGTTTATACATGGTGGAGC
 CAATGTTACTGGATTCCAGTTGGTGGATTTAATACACCTATGGTAATCAAATAATGGATCGTGGAAG
 AAAGTAGATCAGAGAGATCCAGGATCTGAGACTCCTCAAAGTACACCTCTGCTCTGACTTATGATG
 GAGTCTTGTGATGGCTGAAACTTTCCGAAGTCTTAGGAGGCAGAAAATTGATATCTCAAGGAGAGGAAA
 TGCTGGGATTGTCTGGCAAATCCTGCTGCTCCATGGGGCCAGGGAATTGACATGGAGAGGACACTCAA
 AAGGTTCAAGTTCAAGGGCTGACAGGGAATGTTCAAGTTGACCACTATGGACGTAGAGTCAATTACAAA
 TGGATGTGTTGAGCTGAAAAGCACAGGACCTAGAAAAGTTGGTTACTGGAATGATATGGATAAGTTAGT
 CTTGATCAAGATGTACCAACTCTTGGCAATGACACAGCTGCTATTGAGAACAGAACAGTGGTTGTAACC
 ACAATTATGCCTCTGATGAAGAATCCTATTTAAGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225709 representing NM_001112812
 Red=Cloning site Green=Tags(s)

MRIISRQIVLLFSGFWGLAMGAFSSVQIGGLFIRNTDQEYTAFLAIFLHNTSPNASEAPFNLVPHVDN
 IETANSFAVTNAFCSQYSRGVFAIFGLYDKRSVHLLTSFCSALHISLITPSFPTEGESQFVQLRPSLRG
 ALLSLLDHYEWNCVFVLYDTRGYSILQAIMEKAGQNGWHVSAICVENFNDVSYRQLLEELDRRQEKKFV
 IDCEIERLQNIHQIVSVGKHVKGYHYIIANLGFKDISLERFIHGGANVTGFQLVDFNTPMVIKLMDRWK
 KLDQREYPGSETPPKYTSALTYDGVLVMAETFRSLRRQKIDISRRGNAGDCLANPAAPWGQIDMERTLK
 QVRIQGLTGNVQFDHYGRRVNYTMDVFELKSTGPRKVGWYNDMDKLVLIQDVPTLGNDDAAIENRTVVVT
 TIMPLMKNPILRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8005_d04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001112812

ORF Size: 1299 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: [NM_001112812.2](#)

RefSeq ORF: 1302 bp

Locus ID: 2893

UniProt ID: [P48058](#)

Cytogenetics: 11q22.3

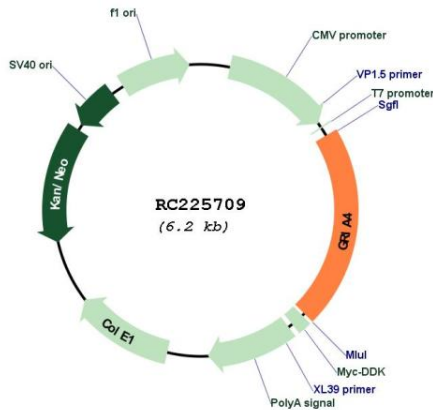
Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 49.15 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 composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA->GGA; R->G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225709