

Product datasheet for **RG225709**

GRIA4 (NM_001112812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIA4 (NM_001112812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRIA4
Synonyms:	GluA4; GluA4-ATD; GLUR4; GLUR4C; GLURD; NEDSGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225709 representing NM_001112812 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATTATTTCCAGACAGATTGCTTGTATTTTCTGGATTTGGGGACTCGCCATGGGAGCCTTTC
CGAGCAGCGTGCAAATAGGTGGTCTCTTCATCCGAAACACAGATCAGGAATACACTGCTTTTCGATTAGC
AATTTTTCTTCATAACACCAGCCCAATGCGTCGGAAGCTCCTTTAATTTGGTACCTCATGTGGACAAC
ATTGAGACAGCCAACAGTTTTGCTGTAACAAACGCCTTCTGTTCCAGTATTCTAGAGGAGTATTGCCA
TTTTTGGACTCTATGATAAGAGTCCGTACATACCTTGACCTCATTCTGCAGCGCCTTACATATCTCCCT
CATCACACCAAGTTCCCTACTGAGGGGAGAGCCAGTTTGTGCTGCAACTAAGACCTTCGTTACGAGGA
GCACTCTTGAGTTTGTGGATCACTACGAATGGAAGTGTCTTCTGTATGACACAGACAGGGGAT
ACTCGATACTCCAAGCTATTATGGAAAAAGCAGGACAAAATGGTTGGCATGTCAGCGCTATATGTGTGGA
AAATTTAATGATGTCAGCTATAGGCAACTTCTAGAAGAAGTTCAGAGAAGACAAGAGAAGTTGTA
ATAGACTGTGAGATAGAGAGACTTCAAACATATTAGAACAGATTGTAAGTGTGGAAAGCATGTTAAAG
GCTACCATTATACATTGCAAACCTGGGATTCAAGGATATTTCTCTTGAGAGTTTATACATGGTGGAGC
CAATGTTACTGGATTCCAGTTGGTGGATTTAATACACCTATGGTAATCAAACAAATGGATCGCTGGAAG
AAACTAGATCAGAGAGAGTATCCAGGATCTGAGACTCCTCAAAGTACACCTCTGCTCTGACTTATGATG
GAGTCCTTGATGGCTGAAACTTTCCGAAGTCTTAGGAGGCAGAAAATTGATATCTCAAGGAGAGGAAA
TGCTGGGATTGTCTGGCAAATCCTGCTGCTCCATGGGGCCAGGGAATTGACATGGAGAGGACACTCAAA
CAGGTTCAATCAAGGGCTGACAGGGAATGTTGAGTTTGACCACTATGGACGTAGAGTCAATTACACAA
TGGATGTGTTGAGCTGAAAAGCACAGGACCTAGAAAAGTTGGTACTGGAATGATATGGATAAGTTAGT
CTTGATTCAAGATGTACCAACTCTGGCAATGACACAGCTGCTATTGAGAACAGAACAGTGGTTGTAACC
ACAATTATGCCTCTGATGAAGAATCCTATTTTAAGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225709 representing NM_001112812
 Red=Cloning site Green=Tags(s)

MRIISRQIVLLFSGFWGLAMGAFSSVQIGGLFIRNTDQEYAFRLAIFLHNTSPNASEAPFNLVPHVDN
 IETANSFAVTNAFCSQYSRGVFAIFGLYDKRSVHTLTSFCSALHISLITPSFPTEGESQFVLQLRPSLRG
 ALLSLLDHYEWNCVFVLYDTRGYSILQAIMEKAGQNGWHVSAICVENFNDVSYRQLLEELDRRQEKKFV
 IDCEIERLQNIILEQIVSVGKHKVGYHYIIANLGFKDISLERFIHGKANVTGFQLVDFNTPMVIKLMDRWK
 KLDQREYPGSETPPKYTSALTYDGLVMAETFRSLRQKIDISRRGNAGDCLANPAAPWQGQIDMERTLK
 QVRIQGLTGNVQFDHYGRRVNYTMDVFELKSTGPRKVGWYNDMDKLVLIQDVPTLGNDTAAIENRTVVVT
 TIMPLMKNPILRN

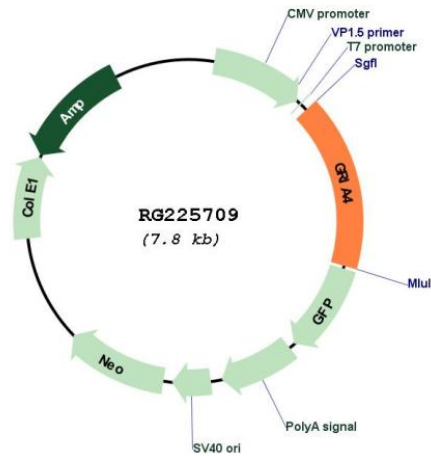
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001112812.2
RefSeq Size:	3213 bp
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
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]