

Product datasheet for **RG219799**

GLUR3 (GRIA3) (NM_000828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUR3 (GRIA3) (NM_000828) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLUR3
Synonyms:	GluA3; GLUR-C; GLUR-K3; GLUR3; GLURC; MRX94; MRXSW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219799 representing NM_000828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGGCAGAAGAAAATGGGGCAAAGCGTGTCTCCGGCGGTCTTCTTTTTAGTCCTGGGGCTTTTGG
 GTCAATTCTCACGGAGGATTCCCCAACACCATCAGCATAGGTGGACTTTTTCATGAGAAACACAGTGCAGGA
 GCACAGCGCTTTCCGCTTTGCCGTGCAGTTATACAACACCAACCAGAACCACCACCAGAGAAGCCCTCCAT
 TTGAATTACCACGTAGATCACTTGGATTCTCCAATAGTTTTTCCGTGACAAATGCTTTCTGCTCCAGT
 TCTCGAGAGGGGTGTATGCCATCTTTGGATTCTATGACCAGATGTCAATGAACACCCTGACCTCCTTCTG
 TGGGGCCCTGCACACATCCTTTGTACGCCTAGCTTCCCCTGACGCAGATGTGCAGTTTGTATCCAG
 ATGCGCCAGCCTTGAAGGGCGTATTCTGAGTCTTCTGGGTATTACAAGTGGGAGAAGTTTGTGTACC
 TCTATGACACAGAACGAGATTTCCATCTCCAAGCGATTATGGAAGCAGCAGTGCAAAACAAGTGGCA
 AGTAACAGCAAGGTCTGTGGAAACATAAAGGACGTCCAAGAATTCAGGGCATCATTGAAGAAAATGGAC
 AGGAGGCAGGAAAAGCGATACTTGATTGACTGCGAAGTCGAAAGGATTAACACAATTTTGGAAACAGTTG
 TGATCCTAGGGAAACACTCAAGAGGTTATCACTACATGCTCGCTAACCTGGGTTTTACTGATATTTTACT
 GGAAAGAGTATGCATGGGGGAGCCAACATTACAGTTTTCCAGATTGTCAACAATGAAAACCTATGGTT
 CAGCAGTTCATACAGCGCTGGGTGAGGCTGGATGAAAGGGAAATCCCTGAAGCCAAGAAATGCACCACTAA
 AGTATACATCTGCATTGACACACGACGCAATACTGGTCATAGCAGAAGCTTTCCGCTACCTGAGGAGGCA
 GCGAGTAGATGTGCCGGAGAGGAAGTCTGGAGACTGCTTAGCAAATCCTGCTGTGCCCTGGAGTCAA
 GGAATTGATATTGAGAGAGCTCTGAAAAATGGTGAAGTACAAGGAATGACTGGAAATATTCAAATTTGACA
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 CTACTGGAACGAGTATGAAAGGTTTGTCCCTTTCTCAGATCAGCAAATCAGCAATGACAGTGCATCCTCA
 GAGAATCGGACCATAGTAGTGACTACCATTCTGGAATCACCATATGTAATGTACAAGAAGAACCATGAGC
 AACTGGAAGGAAATGAACGATATGAAGGCTATTGTGTAGACCTAGCCTATGAAATAGCCAAACATGTAAG
 GATCAAATACAAATGTCCATCGTTGGTGACGGGAAATATGGTGAAGGGATCCAGAGACTAAAATATGG
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 TCCGTGAAGAAGTCATAGATTTTTCAAAGCCATTCATGAGCCTGGGCATCTCCATCATGATAAAGAAGCC
 TCAGAAATCAAACCAGGCGTATTCTCATTCTGGATCCCCTGGCTTATGAAATCTGGATGTGCATTGTC
 TTTGCTTACATTGGAGTCAGCGTAGTTCTTTTCTAGTCAGCAGGTTCACTCCTTATGAATGGCACTTGG
 AAGACAACAATGAAGAACCTCGTGACCCACAAAGTCTCCTGATCCTCCAATGAATTTGGAATATTTAA
 CAGTCTTTGGTTTTCTTGGGTGCCTTTATGCAGCAAGGATGTGATATTTCTCCAAGTCACTCTCCGGG
 CGCATTGTTGGAGGGTTTGGTGGTTCTTACCCTGATCATAATTTCTTCTATACTGCCAATCTCGCTG
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 GGCTCAGCATTAGGAAATGCTGTTAACCTGGCAGTATTAAGAACTGAATGAGCAAGGCCCTTGGACAAAT
 TGAAAAACAATGGTGGTACGACAAAGGAGAGTGCAGCAGCGGGGCGGTGACTCCAAGGACAAGACCAG
 CGCTCTGAGCCTGAGCAATGTGGCAGGCGTTTTCTATATACTTGTGCGAGGTCTGGGGCTGGCCATGATG
 GTGGCTTTGATAGAATTCTGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACAAAGAACACCC
 AAAACTTAAAGCCTGCTCCTGCCACCAACTCAGAATTATGCTACATACAGAGAAGGCTACAACGTGTA
 TGGAACAGAGAGTGTAAAGATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219799 representing NM_000828
 Red=Cloning site Green=Tags(s)

MARQKKMGQSVLRAVFFLVLGLLGHSHGGFPNTISIGGLFMRNTVQEHSAFRFAVQLYNTNQNTTEKPFH
 LNYHVDHLDDSSNSFSVTNAFCSQFSRQVYVIFGFYDQMSMNTLTSFCGALHTSFVTPSFPTDADVQFVIQ
 MRPALKGAILSLLGHYKWEKFVYLYDTERGFSILQAIMEAAVQNNWQVTARSVGNIKDVQEFRRRIEEMD
 RRQEKRYLIDCEVERINTILEQVVILGKHSRGYHYMLANLGFDTILLERVMHGGANITGFQIVNENPMV
 QQFIQRWVRLDEREFPEAKNAPLKYTSALTHDAILVIAEAFRYLRRQRVDVSRGASAGDCLANPAVPWSQ
 GIDIERALKMVQVQGMTGNIQFDTYGRRTNYTIDVYEMKVSRSRAGYWNERYERFVPSDQQISNDSASS
 ENRTIVVTTILESPYVMYKKNHEQLEGNERYEGYCVDLAYEIAKHVRIKYKLSIVGDGKYGARDPETKIW
 NGMVGELVYGRADIAVAPLTITLVREEVIDFSKPFMSLGISIMIKPKQSKPGVFSFLDPLAYEIIWMCIV
 FAYIGVSVVFLVSRFSPYEWHLNNEEPRDPQSPDPNFEFGIFNSLWFLGAFMQQGCDSRSLSG
 RIVGGVWVFFTLIIISSYTANLAAFLTVERMVSPIESAEDLAKQTEIAYGTLDSGSTKEFFRRSKIAVYE
 KMWSYKSAEPSVFTKTTADGVARVRKSKGKFAFLEESTMNEYIEQRKPCDTMKVGGNLDKSGYGVATPK
 GSA L GNAVNLA VLKLNEQGLLDKLNKWWYDKGECGSGGDSKDKTSALSLSNVAGVFYILVGGGLGAMM
 VALIEFCYKSRAESKRMKLTKNQNFKPAPATNTQNYATYREGYNVYGTESVKI

TRTRPLE - GFP Tag - V

Restriction Sites:

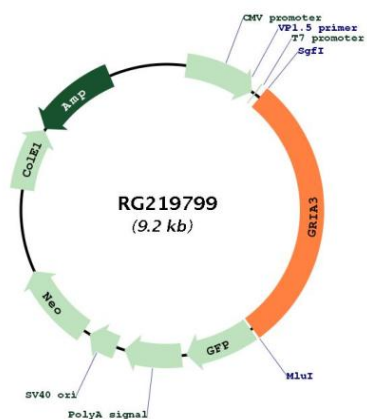
SgfI-MluI

Cloning Scheme:



ACCN:	NM_000828
ORF Size:	2682 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_000828.2 , NP_000819.1
RefSeq Size:	3148 bp
RefSeq ORF:	2685 bp
Locus ID:	2892
UniProt ID:	P42263
Cytogenetics:	Xq25
Domains:	lig_chan, ANF_receptor
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Long-term depression, 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 at this locus results in different isoforms, which may vary in their signal transduction properties. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219799