

Product datasheet for **RG231818**

GLUR3 (GRIA3) (NM_001256743) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GLUR3 (GRIA3) (NM_001256743) 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)
ORF Nucleotide Sequence: >RG231818 representing NM_001256743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGCAGAAGAAAATGGGGCAAAGCGTGCTCCGGGCGGTCTTCTTTTAGTCTGGGGCTTTTGG
 GTCATTCTCACGGAGGATTCCCCAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACAGTGCAGGA
 GCACAGCGCTTCCGCTTGGCCGTGCAGTTATAACAACCAACCAGAACCACCGAGAAGCCCTCCAT
 TTGAATTACCACGTAGATCACTTGGATTCTCCAATAGTTTTCCGTGACAAATGCTTGCCTGCTGAAA
 GGGACTACCTGCCTTGGCCAGGAAGCATCAGGGAAAACAATTGGACAGCTCTGCCGTGCTCAAAGATCA
 TGGGCTGCTGCACCTAAAATGTTACCAGGTGGGGCCCGCAAACCTGGGCCTATTGTATCTGGGGCGTT
 ACAGGTGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231818 representing NM_001256743
 Red=Cloning site Green=Tags(s)

MARQKMGQSVLRAVFFLVLGLLGHSHGGFPNTISIGGLFMRNTVQEHSFRFAVQLYNTNQNTTEKPFH
 LNYHVDHLDSSNSFSVTNACPAERDYLWPVGSIRENWTALPCKDHGLLHLKCSPPGARQNWAYCIWGV
 TGEL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001256743

ORF Size: 432 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_001256743.2](#)

RefSeq Size: 1067 bp

RefSeq ORF: 435 bp

Locus ID: 2892

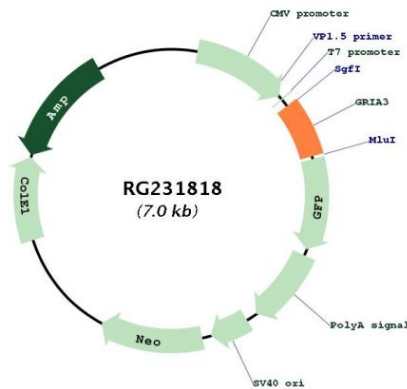
Cytogenetics: Xq25

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 RG231818