

Product datasheet for **SC127844**

GLUR3 (GRIA3) (NM_007325) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUR3 (GRIA3) (NM_007325) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLUR3
Synonyms:	GluA3; GLUR-C; GLUR-K3; GLUR3; GLURC; MRX94; MRXSW
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC127844 sequence for NM_007325 edited (data generated by NextGen Sequencing)

```

ATGGCCAGGCAGAAGAAAATGGGGCAAAGCGTGCCTCCGGGCGGTCTTCTTTTAGTCCTG
GGGCTTTTGGGTCACTTCTCACGGAGGATCCCCAACACCATCAGCATAGGTGGACTTTTC
ATGAGAAACACAGTGCAGGAGCACAGCGCTTCCGCTTTCGCGTGCAGTTATACAACACC
AACCAGAACACCACCGAGAAGCCCTTCCATTTGAATTACCACGTAGATCACTTGGATTCC
TCCAATAGTTTTTCCGTGACAAATGCTTCTGCTCCAGTTCTCGAGAGGGGTGTATGCC
ATCTTTGGATTCTATGACCAGATGTCAATGAACACCCTGACCTCCTTCTGTGGGGCCCTG
CACACATCCTTTGTTACGCCTAGCTTCCCCACTGACGCAGATGTGCAGTTTGTATCCAG
ATGCGCCCAGCCTGAAGGGCGCTATTCTGAGTCTTCTGGGTCAATACAAGTGGGAGAAG
TTTGTGTACCTCTATGACACAGAACGAGGATTTCCATCCTCCAAGCGATTATGGAAGCA
GCAGTGCAAAAACAACTGGCAAGTAAACAGCAAGGTCTGTGGGAAACATAAAGGACGTCCAA
GAATTCAGGCGCATCATTGAAGAAATGGACAGGAGGCAGGAAAAGCGATACTTGATTGAC
TGCGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTGTGATCCTAGGGAAACTCA
AGAGGTTATCACTACATGCTCGCTAACCTGGGTTTTACTGATATTTACTGGAAAGAGTC
ATGCATGGGGGAGCCAACATTACAGTTTTCCAGATTGTCAACAATGAAAACCCCTATGGTT
CAGCAGTTCATACAGCGCTGGGTGAGGCTGGATGAAAGGGAATCCCTGAAGCCAAGAAT
GCACCACTAAAGTATACATCTGCATTGACACACGACGCAATACTGGTCATAGCAGAAGCT
TTCCGCTACCTGAGGAGGCAGCGAGTAGATGTGTCCCGGAGAGGAAGTGTGGAGACTGC
TTAGCAAACTCCTGCTGTGCCCTGGAGTCAAGGAATTGATATTGAGAGAGCTCTGAAAATG
GTGCAAGTACAAGGAATGACTGGAAATATTCATTTGACACTTATGGACGTAGGACAAAT
TATACCATCGATGTGTATGAAATGAAAGTCAAGTGGCTCTCGAAAAGCTGGCTACTGGAAT
GAGTATGAAAGGTTTGTGCTTTTCTCAGATCAGCAAATCAGCAATGACAGTGCATCCTCA
GAGAATCGGACCATAGTAGTGACTACCATTCTGGAATCACCATATGTAATGTACAAGAAG
AACCATGAGCAACTGGAAGGAAATGAACGATATGAAGGCTATTGTGTAGACCTAGCCTAT
GAAATAGCCAAACATGTAAGGATCAAATACAAATTGTCCATCGTTGGTGACGGGAAATAT
GGTGCAAGGGATCCAGAGACTAAAATATGGAACGGCATGGTTGGGGAACTTGTCTATGGG
AGAGCTGATATAGCTGTTGCTCCACTACTATAACATTGGTCCGTGAAGAAGTCATAGAT
TTTTCAAAGCCATTCATGAGCCTGGGCATCTCCATCATGATAAAGAAGCCTCAGAAATCA
AAACCAGGCGTATTCTCATTCTGGATCCCCTGGCTTATGAAATCTGGATGTGCATTGTC
TTTGCTTACATTGGAGTCAGCGTAGTTCTTTTCTAGTCAGCAGGTTTCAGTCCTTATGAA
TGGCACTTGAAGACAACAATGAAGAACCTCGTGACCCACAAAGTCTCCTGATCCTCCA
AATGAATTTGGAATATTTAACAGTCTTTGGTTTTCCCTTGGGTGCCTTTATGCAGCAAGGA
TGTGATATTTCTCCAAGTCACTCTCCGGGCGCATTGTTGGAGGGGTTTGGTGGTTCTTC
ACCCTGATCATAATTTCTTCTATACTGCCAATCTCGCTGCTTTCCTGACTGTGGAGAGG
ATGGTTTCTCCATAGAGAGTGCAGAACTTAGCTAACAGACTGAAATTCATATGGG
ACCCTGGACTCCGGTTCAACAAAAGAATTTTTCAGAAGATCCAAAATTGCTGTGTACGAG
AAAATGTGGTCTTACATGAAATCAGCGGAGCCATCTGTGTTTACAAAACAACAGCAGAC
GGAGTGGCCCCGAGTGCAGAAAGTCCAAGGGAAAGTTCGCCTTCTGCTGGAGTCAACCATG
AATGAGTACATTGAGCAGAGAAAACCATGTGATACGATGAAAGTTGGTGGAAATCTGGAT
TCCAAAGGCTATGGTGTGCAACCCCTAAAGGCTCAGCATTARGAACGCCTGTAAACCTT
GCAGTATTGAAACTCAGTGAACAAGGCATCTTAGACAAGCTGAAAAACAAATGGTGGTAC
GATAAGGGGGAATGTGGAGCCAAGGACTCCGGGAGTAAGGACAAGACCAGCGCTCTGAGC
CTGAGCAATGTGGCAGGCGTTTTCTATATACTTGTGCGAGGTCTGGGGCTGGCCATGATG
GTGGCTTTGATAGAATTTCTGTTACAAATCACGGGCAGAGTCCAAACGCATGAAACTCACA
AAGAACACCCAAAACCTTTAAGCCTGCTCCTGCCACCAACTCAGAATTATGCTACATAC
AGAGAAGGCTACAACGTGTATGGAACAGAGAGTGTAAAGATCTAG

```

Clone variation with respect to NM_007325.4
2323 g=>r

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007325 unedited
 GCGAATTCGGCACGAGGCTCTTGTGCTCAGCTTCGTTTTAGGCGTAGCATGGCCAGGCAGAAG
 AAAATGGGGCAAAGCGTGCTCCGGGCGGTCTTCTTTTAGTCCTGGGGCTTTTGGGTCAT
 TCTCACGGAGGATTTCCCAACACCATCAGCATAGGTGGACTTTTCATGAGAAACACAGTG
 CAGGAGCACAGCGCTTCCGCTTTGCCGTGCAGTTATAACAACCAACCAGAACCACC
 GAGAAGCCCTTCCATTTGAATTACCACGTAGATCACTTGGATTCCTCCAATAGTTTTTCC
 GTGACAAATGCTTCTGCTCCCAGTTCGAGAGGGGTGTATGCCATCTTTGGATTCTAT
 GACCAGATGTCAATGAACACCCTGACCTCTTCTGTGGGGCCCTGCACACATCCTTTGTT
 ACGCCTAGCTTCCCCACTGACGCAGATGTGCAGTTTGTATCCAGATGCGCCAGCCTTG
 AAGGGCGTATTCTGAGTCTTCTGGGTCATTACAAGTGGGAGAAGTTTGTGTACCTCTAT
 GACACAGAACGAGGATTTCCATCCTCCAAGCGATTATGGAAGCAGCAGTGCANAACAAC
 TGGCAAGTAACAGCAGGGTCTGTGGAAACATANAGGACGTCCAAGAATTCAGGCGCATC
 ATTGAAGAAATGGACAGGAGGCAGGAANAGCGATACTTGATTGACTGGGAAGTCGAAAGG
 ATAAACACATTTGGACAGGGTGGTATCTAGGGAACATCCAAGAGTTATACTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007325 unedited
 NGGGCCTGAGGTATTTTCATCACTTAAGTATTAACCTTTGTACAATACCTCATGGCAATG
 AGGCTCTGTAGTTTATGCCACACATGCAAATTACGCTTTTATAGCCATTAGTTTGCTTG
 GCAATTTTCTGTTCACTGAAGTACAGCTTTAACAACAAAAGAAAAGAATTGGAAAAA
 AATCCTCAAGTACTACTGCCAACTCCCATAGCTTGAAGTTAGTAGCAGAAATTTGAAG
 CAATCACTTTTTTTAAACATGCAAGTTTTTTTTAAAAATAACAACCAATTTACCCG
 CCTCTTCACTCAGTGACGTTTCTCTCTGAAAACTGATTTGAGTTAATAAACATACAT
 TTTCTTTATACAGTGCCTATGAAAACATTTGTGTGTAGTTGGTTGGTTTGTATAC
 AACTTCATGTTACACAGCGTGAGCTTCCCGCGCTGGGACATTATAGCATTCAAGTTG
 AAAATCACAGTTTCATGAAAACAAAACAAAACAAAACACAACAGCTTTCTTTTTTGT
 CAATACCATTTGAAATTTGACAAGTGTGTTGTTGCTTATGACACCATTTTGGAAATGAA
 AGTTTATAGTACTTTTCTGGAAACATTTGTTGGAACGATACTTCTTCTTTCTTTTC
 TGAAGACAAGAGCAAATATGCAGCGAGTCAACTAAGCATCTAAGGGTCACACTTGGGAAA
 TGAATGCGAGCTCCTAGTTTTTGCAGTCTGGAACTTCCAATGCAGTTATCGATGAGA
 GCAAACACTGAACTACAGGAAGCATACGTCGTTATATAGGAAGTAATTAGTGAGTGGAG
 ACTATTTCTTCGACTGTTCTGATGATGCCAACGGCAGGATGCAA

Restriction Sites:

NotI-NotI

ACCN:

NM_007325

Insert Size:

4500 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007325.2 , NP_015564.2
RefSeq Size:	3148 bp
RefSeq ORF:	2685 bp
Locus ID:	2892
UniProt ID:	P42263
Cytogenetics:	Xq25
Protein Families:	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane
Protein Pathways:	Long-term depression, Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1 (also known as flip isoform). RNA editing (AGA->GGA) changes Arg775Gly.</p>