

Product datasheet for **SC125535**

GLUR3 (GRIA3) (NM_000828) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUR3 (GRIA3) (NM_000828) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000828, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGGCAGAAGAAATGGGGCAAAGCGTGCTCCGGGCGGTCTTCTTTTTAGTCTGGGGCTTTTGG
GTCATTCTCACGGAGGATTCCCCAACCCATCAGCATAGTGGACTTTTCATGAGAAACACAGTGCAGGA
GCACAGCGCTTTCCGCTTTGCCGTGCAGTTATACAACCAACCAAGCAGAACACCACCGAGAAGCCCTCCAT
TTGAATTACCACGTAGATCACTTGGATTCTCCAATAGTTTTTCCGTGACAAATGCTTTCTGCTCCCAGT
TCTCGAGAGGGGTGTATGCCATCTTTGGATTCTATGACCAGATGTCAATGAACACCCTGACCTCCTTCTG
TGGGGCCCTGCACACATCCTTTGTTACGCCTAGCTTCCCCACTGACGCAGATGTGCAAGTTTGTATCCAG
ATGCGCCCAGCCTTGAAGGGCGCTATTCTGAGTCTTCTGGGTCAATACAAGTGGGAGAAGTTTGTGTACC
TCTATGACACAGAACGAGGATTTCCATCCTCCAAGCGATTATGGAAGCAGCAGTGCAAAACAACCTGGCA
AGTAACAGCAAGGTCTGTGGAAACATAAAGGACGTCCAAGAATTCAGGGCGATCATTGAAGAAATGGAC
AGGAGGCAGGAAAAGCGATACTTGATTGACTGCGAAGTCGAAAGGATTAACACAATTTTGAACAGGTTG
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GGAAAGAGTCATGCATGGGGGAGCCAACATTACAGGTTTTCCAGATTGTCAACAATGAAAACCCATGGTT
CAGCAGTTCATACAGCGCTGGGTGAGGCTGGATGAAAGGGAATCCCTGAAGCCAAGAATGCACCACTAA
AGTATACATCTGCATTGACACACGACGCAATACTGGTCATAGCAGAAGCTTTCCGCTACCTGAGGAGGCA
GCGAGTAGATGTGTCGGGAGAGGAAAGTCTGGAGACTGCTTAGCAAAATCCTGCTGTGCCCTGGAGTCAA
GGAATTGATATTGAGAGAGCTCTGAAAATGGTGAAGTACAAGGAATGACTGGAAATATTTCAATTTGACA
CTTATGGACGTAGGACAAATTAACCATCGATGTGTATGAAATGAAAGTCAGTGGCTCTCGAAAAGCTGG
CTACTGGAATGAGTATGAAAGGTTTGTGCCTTTCTCAGATCAGCAAAATCAGCAATGACATGCATCCTCA
GAGAATCGGACCATAGTAGTACTACCATTCTGGAATCACCATATGTAATGTACAAGAAGAACCCATGAC
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AACGGCATGGTTGGGAACTTGTCTATGGGAGAGCTGATATAGCTGTTGCTCCACTACTATAACATTGG
TCCGTGAAGAAGTCATAGATTTTTCAAAGCCATTCATGAGCCTGGGCATCTCCATCATGATAAAGAAGCC
TCAGAAATCAAACCAGGCGTATTCTCATTCTGGATCCCCTGGCTTATGAAATCTGGATGTGCATTGTC
TTTGCTTACATTGGAGTCAGCGTAGTCTTTTCTAGTCAGCAGGTTCACTCCTTATGAATGGCACTTGG
AAGACAACATGAAGAACCTCGTGACCCACAAAGTCTCCTGATCCTCCAATGAATTTGGAATATTTAA
CAGTCTTTGGTTTTCTTGGGTGCCTTTATGCAGCAAGGATGTGATATTTCTCAAGACTACTCTCCGGG
CGCATTGTTGGAGGGTTTGGTGGTCTTACCCTGATCATAATTTCTTCTATACTGCCAATCTCGCTG
CTTTCCTGACTGTGGAGAGGATGGTTTCTCCATAGAGAGTGCTGAAGACTTAGCTAAAACAGACTGAAAT
TGCATATGGGACCCTGGACTCCGGTTCAACAAAAGAAATTTTTCAGAAGATCCAAAATTTGCTGTGTACGAG
AAAATGTGGTCTTACATGAAATCAGCGGAGCCATCTGTGTTTACAAAACAACAGCAGACGGAGTGGCC
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CGCTCTGAGCCTGAGCAATGTGGCAGGCGTTTTCTATATACTTGTGCGAGGTCTGGGGCTGGCCATGATG
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AAAACCTTAAGCCTGCTCCTGCCACCAACTCAGAATTATGCTACATACAGAGAAGGCTACAACGTGTA
TGAACAGAGAGTGTAAAGATCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000828 unedited
 TTTGTATACGACTCTATAGGGCGGCCGAATTCGCACGAGGGAAGAGTGAGCGAGAGC
 AAGTTAAGGGGAGGGGTGTAAGAGCCAGCGAATTCCTTTCTTTTCTATTATTTTT
 GACGACTCTGAGTTGCGCCCATGCTCTGTGACGCTTCGTTTTAGGCGTAGCATGGCCAG
 GCAGAAGAAAATGGGGCAAAGCGTGCTCCGGGCGGTCTTCTTTTAGTCTGGGGCTTTG
 GGTCATTCTCACGGAGGATCCCCAACACCATCAGCATAGGTGGACTTTTCATGAGAAAAC
 ACAGTGCAGGAGCACAGCGCTTTCCGCTTGGCGTGCAGTTATACAACACCAACCAGAAC
 ACCACCGAGAAGCCCTTCCATTTGAATTACCACGTAGATCACTTGGATTCTCCAATAGT
 TTTCCGTGACAAATGCTTCTGCTCCCAGTTCTCGAGAGGGGTGATGCCATCTTTGGA
 TTCTATGACCAGATGTCAATGAACACCCTGACCTCCTTCTGTGGGGCCCTGCACACATCC
 TTTGTTACGCCTAGCTTCCCACTGACGCAGATGTGCAGTTTGTCCATCCAGATGCGCCCA
 GCCTTGAAGGGCGCTATTCTGAGTCTTCTGGGTCATTACAAGTGGGGAGAAAGTTTGTGT
 ACCTCTATGACACAGAACGAGGATTTCCATCCTCCAAGCGATTATGGAAGGCAGCAGTG
 CANAACAACTGGNCAGTAACAGCAAGGGNTCTGTGGGAAACATAAAAGGACGTCCAAGAA
 TTCAGGCGCATCATTGAAGAAAATGGACAGGNAGCANNGAAAGCGATACTTTGATGACTTG
 CGAAGTCGAAAGGATTAACACATTNGGAACCGGGTTGGGATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000828 unedited
 AAGGCCCTTTGNGGCAATTTTCTATTACAAAATGTATTAACAACTTTGTACAATACCTCAT
 GGCAATGAGGCTCTGTAGTTTATGCCACACATGCAAATTACGCTTTTATAGCCATTAGT
 TTGCTTGGCAATTTTCTGTTCACTGAAGTACAGCTTTAAACAACAAAAGAAAAGAAATTG
 GAAAAAAATCCTCAAGTACTACTGCCAACTCCCATAGCTTGAAGTTAGTAGCAGAAA
 TTTGAAGCAATCAACTTTTTTTTAAACATGCAAGTTTTTTTTAAAAAATAACAAACCAAT
 TTACCCGCTCTTCATCTCAGTGACGTTTCTCTCTGAAAAACTGATTTGAGTTAATAAA
 CATACTTTTTCTTTATACAGTGCCATGAAAACATTTGTGTGAGTTGGTTGGTTTGT
 TTTATACAACTTCATGTTACACAGCGTGAGCTTCCCGCGCTGGGACATTATAGCATTCA
 TAAGTTGAAAAATCACAGTTTCATGAAAACAAAACAAAACAAAACACAACAGCTTTCTTT
 TTTTGTCAATACCATTTGAAATTTGACAAGTGAAGTTGTTGCTTATGACACCATTTTGT
 GAATGAAAGTTTATAGTACACTTTTCTGAAAACATTTTCGTTGGAACGATACTTCTTCTT
 TCTTTTCTGAAGACAAGAGCAAATATGCAGCGAGTCAACTAAGCATCTAAGGGTCACACT
 TGGGAAATGAATGCGAGCTCCTAGTTTTTGCAGTCTGAAAACCTTCCAATGCACGTTATC
 GATGAGAGCAACTACTGAACTACAGGAAGCATACGTCGTTATATAGGAAGTAATTAGTG
 AGTGGAGACTATTTCTTTCGACTGTTCTGATGATGCCAACGGCAGTATGCAGTTAGTTA
 CTTGATAGCCCATGGAGCANTGGAGCG

Restriction Sites:

NotI-NotI

ACCN:

NM_000828

Insert Size:

4500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	5195 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:	<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 (2) uses an alternate internal coding exon compared to transcript variant 1, and encodes an isoform (2, also known as flop isoform) that is the same length, but with a few amino acid differences from isoform 1. RNA editing (AGA->GGA) changes Arg775Gly.</p>