

Product datasheet for **MC222511**

Grik2 (NM_00111268) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik2 (NM_00111268) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grik2
Synonyms:	AW124492; C130030K03Rik; Glu; GluK2; Glur; Glur-6; Glur6; Glurbe; Glurbeta2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222511 representing NM_001111268
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTATTTCCCCAGTTTTAAGTAATCTAGTCTTCAGTCGTCCTAAAGTCCTGCTCTGCTTGT
 TGTGGATCGGATATTCGCAAGGAACACACATGTGTTAAGATTCGGTGGTATATTTGAATATGTGGAATC
 TGGCCCTATGGGAGCTGAAGAACTTGCATTTCAGATTTGCTGTGAATACAATCAACAGGAACAGGACTCTG
 CTACCCAATACCACGTTAACATATGATACACAGAAGATCAATCTCTATGACAGTTTTGAAGCATCTAAGA
 AAGCTTGTGATCAGCTGTCTCTGGGGTGGCTGCCATCTTCGGTCTTCACACAGTTCATCAGCAAAATGC
 TGTTTCAGTCCATCTGCAATGCTCTGGGGTTCCTCACATACAGACCCGCTGGAAGCACCAGGTGTCAGAC
 AATAAGGATTCCTTCTATGTCAGTCTCTACCCAGACTTCTCTCCCTCAGCCGTGCCATCTTGGATTTGG
 TGCAGTTTTTAAAGTGGAAAACGTACAGTTGTGTATGACGACAGCACTGGTCTCATTTCGCTTGAAGA
 GCTCATCAAAGCTCCATCAAGTACAATCTTCGACTTAAAATTCGTGAGTCCAGCTGATACAAAAGAT
 GCAAAGCCTTTGCTGAAAGAGATGAAGAGGGGCAAGGAGTCCACGTGATCTTCGACTGCAGCCATGAAA
 TGGCAGCAGGCATTTAAAGCAGGCATTAGCTATGGGAATGATGACAGAATACTACCACTATATATTTAC
 GACTCTGGACCTCTTCGCTCTTGATGTGGAGCCCTACAGATACAGTGGCGTAAAATGACAGGGTTCAGA
 ATACTAAATACAGAGAATACCCAAGTCTCTCCATCATCGAGAAGTGGTCGATGGAACGGTTACAGGCAC
 CTCCAAAACCTGACTCAGGTTTGGCTGGATGATTTATGACGACTGATGCTGCTCTGATGTATGATGCAGT
 GCACGTTGTGTCTGTAGCTGTCCAACAGTTTCCCAGATGACAGTCAGCTCCTTGAATGCAATCGACAC
 AAACCTGGCGCTTTGGGACTCGCTTTCATGAGCCTAATTAAGAGGCTCATTGGGAAGGCTTACAGGCA
 GAATTACATTTAAACAAAACCAATGGATTGCGAACAGATTTTGGATTTGGATGTGATCAGTCAAGGAAGA
 AGGTCTGAGAGAAGATTGGGACTTGGGATCCATCCAGTGGCCTGAATATGACAGAAAAGTCAGAAAAGGGAAG
 CCAGCAAATATTACAGATTCATTGTCTAATCGTCTTTGATTGTTACCACATTTTGAAGAACCATATG
 TCCTGTTTAAAGAAGTCTGACAAACCTCTCTATGGGAATGATCGATTTGAAGGCTACTGTATTGATCTTCT
 ACGAGAGTTATCTACAATCCTTGGCTTTACATATGAAATAGGCTTGTGGAGGATGGGAAAATGGAGCC
 CAGGATGATGTGAATGGACAATGGAATGGAATGGTTCGTGAGCTAATTGATCATAAAGCTGACCTTGACG
 TTGCTCCACTGGCTATTACCTATGTTCTGTGAGAAGGTCATCGACTTTTCAAAGCCGTTTATGACTCTTGG
 AATAAGTATTTGTACCACAAGCCCAATGGTACAACCCAGGCGTCTTCTCTTCTGAATCCTCTCTCC
 CCTGATATCTGGATGTATGTTCTGCTGGCTTGGTGGGTGTCAGTTGTGTGCTCTTGTGCATAGCCAGGT
 TTAGTCCCTATGAGTGGTATAATCCACACCCTTGAACCCCTGACTCAGAGCTGGTGGAAAACAATTTTAC
 CTTGCTAAATAGTTTCTGGTTTGGAGTTGGAGCTCTCATGCGGCAAGGTTCTGAGCTCATGCCAAAAGCA
 CTCTCCACCAGGATAGTGGGAGGCATTTGGTGGTTTTTACACCTTATCATATTTCTTCGTATACCCTA
 ACCTAGCCGCCTTTCTGACCGTGGAACGCATGGAGTCGCCTATTGACTCTGCTGACGATTTAGCTAAGCA
 AACCAAGATAGAAATGGAGCAGTAGAGGACGGCGCAACCATGACGTTTTTCAAGAAATCAAAAATCTCA
 ACGTATGATAAAATGTGGCATTATGAGCAGCAGGAGACAGTCTGTGCTTGTCAAAGCAATGAGGAAG
 GGATTCACGTCCTCACCTCCGATTAATGCTTTCTTAATGGAGTCAACGACCATCGAGTTTGTACCCA
 GCGGAACGTAACTCACGCAGATTGGTGGCCTTATAGACTCAAAGGCTATGGTGTGGCACTCCCATG
 GGTTCTCCATATCGAGACAAAATCACCATAGCCATTCTTCAGCTGACAGGGAAGCAAGCTGCACATGA
 TGAAGGAGAAGTGGTGGGAGGCAATGGCTGCCAGAGGAGGAGAGCAAAGAGGCCAGTGTCTAGGGGT
 GCAGAATATTGGTGGTATCTTCATTGCTCTGGCAGCCGGCTTGGTGTCTCAGTTTTTGTGGCAGTGGGA
 GAGTTTTTATACAAATCCAAAAAAACGCTCAATTGGAAAAGAGGTCCTTCTGTAGCGCCATGGTGGAAAG
 AACTGAGAATGTCTCTGAAGTGCCAGCGTCGGCTCAAACATAAGCCACAGGCCCCAGTTATTGTGAAAAC
 AGAAGAAGTTATCAACATGCACACATTTAACGACAGAAGGTTGCCAGGTAAGAAACCATGGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001111268

Insert Size:	2727 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:	<u>NM_001111268.1</u> , <u>NP_001104738.1</u>
RefSeq Size:	4785 bp
RefSeq ORF:	2727 bp
Locus ID:	14806
Cytogenetics:	10 24.87 cM
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. This gene product belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. The subunit encoded by this gene is subject to RNA editing at multiple sites within the first and second transmembrane domains, which is thought to alter the structure and function of the receptor complex. Alternatively spliced transcript variants encoding different isoforms have also been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). RNA editing changes Ile567Val, Tyr571Cys and Gln621Arg. Variants 1 and 3 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>