

## Product datasheet for **MC222680**

### **Grik1 (NM\_146072) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grik1 (NM_146072) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grik1
Synonyms:	A830007B11Rik; D16lum2; D16lum24; D16lum24e; Glu; GluK; GluK1; GluK5; Glur; Glur-5; Glur5; Glurbe; Glurbeta1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC222680 representing NM\_146072  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCGCGGCACAGTCTTATCCAACCCGGGCTCTGGACCAGGGACACCAGCTGGACACTCCTCTATT  
 TCCTGTGCTACATCCTTCTCAGACCTCCCTCAAGTGCTCAGGATCGGAGGGATTTTTGAAACTGTGGA  
 AAACGAACCTGTTAATGTTGAAGAATTAGCTTTCAAGTTGTCAGTACCAGTATTAACCGAAACCGAACC  
 TTGATGCCAATACCACATTAACCTATGACATCCAGAGAATTAATCTTTTTGATAGTTTTGAAGCCTCCC  
 GAAGAGCATGCGACCAACTGGCTCTTGGGGTGGCCGCCCTCTTCGGTCTTCCCACAGCTCCTCCGTCAG  
 TGCTGTACAGTCTATTTGCAATGCTCTGGAAGTCCACACATTACAGTCTCGTGGAAACACCCTTCTGTG  
 GACAACAGAGACTTATTTACATCAACCTCTACCCAGATTATGCAGCTATCAGCAGGGCAGTCTGGATC  
 TGGTCTCTATTACAACGGAAAACAGTGACGGTGGTGTACGAAGACAGCACAGGTCTAATTCGTCTGCA  
 AGAGCTCATCAAAGCTCCCTCCAGATACAACATCAAATCAAATCCGCCAGCTTCCCTCTGGCAATAAG  
 GATGCCAAACCTCTGCTCAAGGAGATGAAGAAAGCAAGGAGTTCTATGTGATATTTGATTGTTCCGACCG  
 AGACGGCTGCTGAAATTTAAGCAGATTTTGTTCATGGGCATGATGACTGAATACTATCACTACTTCTT  
 CACAACCTGGACTTGTTTGGCTTGGATCTGGAACCTACAGGTACAGTGGTGAATAATGACTGGATTT  
 CGGTTGCTGAATATTGACAACCTCACGTGTATCCATCATTGAGAAGTGGTCCATGGAGAGATTGCAGG  
 CCCACCCAGACCTGAGACTGGTCTCCTGGACGGCGTGATGACAACCTGAAGCAGCTCTGATGTACGATGC  
 TGTGTACATGGTAGCCATCGCTCTCACCGTGCCTCTCAGCTGACCGTCAGTCCCTGCAGTGCCATCGA  
 CATAAGCCATGGCGCCTAGGACCCAGATTTATGAACCTCATCAAAGAGGGCGGGTGGGATGGCTTGACGG  
 GGCGGATCACCTTCAATAAGACGGATGGCTTGGAAAAGGATTTGACCTGGACATTATCAGTCTCAAAGA  
 GGAAGGAACTGAAAAGATTGGGATTTGGAACCTCAAACAGTGGGCTGAACATGACGGATGGCAACAGAGAC  
 AGGTCAAACAATATCACAGATTCGCTGGCTAACGGAACGCTCATTGTCAACCACTATTCTGGAAGGCCCT  
 ACGTGTATGACAGGAAATCCGATAAACCACTGTACGGAATGACAGATTTGAAGGATATTGCCTGGATCT  
 GCTGAAAGAACTGCAAAATATCCTAGGTTTCTTTATGATGTTAAACTGGTTCCTGACGGCAAAATGGA  
 GCCCAGAAATGACAAGGGGAGTGGAAACGGGATGGTTAAGGAACTCATCGACCACAGAGCTGACCTAGCAG  
 TGGCCCTCTCACCATCACGATGTACGGGAGAAAGTCAATGACTTCTCCAAGCCTTTCATGACTCTGGG  
 CATTAGCATCCTTACCAGGAAAGCCCAATGGAACCAACCCCGCGCTTCTCCTTCTCAACCCCTGTCT  
 CCAGACATTTGGATGTATGTGCTCCTCGCTTGCCTAGGAGTCAAGTGTGTGCTTTTTGTGATTGCAAGGT  
 TCACACCTACGAGTGGTATAACCCCAACCCGTGCAACCTGACTCAGAGTGGTGGAAAACAATTCAC  
 TTTGCTAAATAGTTTCTGGTTTGGCGTTGGAGCTCTCATGCGGCAAGGATCGGAGCTGATGCCAAAGGT  
 CTATCGACCAGAAATAGTTGGAGGAATATGGTGGTTTTTACCCTAATCATCATCTCATCCTACACTGCCA  
 ACCTGGCTGCCTTCTTGACAGTAGAAAGGATGGAATCCCCATCGATTCCGCAGACGACCTGGCCAAACA  
 AACCAAGATAGAATACGGGGCAGTCAGAGATGGCTCGACAATGACCTTCTCAAGAAATCAAAAATCTCC  
 ACGTATGAGAAAATGTGGGCTTTCATGAGCAGTAGACAGCAGAGCGCCCTGGTTAAAAACAGCGATGAGG  
 GGATCAAAGGGTGTACCACCGACTACGCCCTGCTGATGGAGTCCACCAGCATTGAGTATGTGACACA  
 GAGGAACCTGCAACCTCACTCAGATCGGGGGCCTCATAGACTCAAAGGCTATGGAGTGGGGACACCTATC  
 GGCTCCCCTTACCAGGATAAAAATTACAATTGCTATTCTTCAACTACAAGAAGAAGGAAGCTTCATATGA  
 TGAAGAGAAATGGTGGAGGGAAATGGCTGCCCTGAAGAAGACAGTAAAGAAGCCAGTGTCTAGGAGT  
 GGAAAATATCGGGGGTATCTTATTGTTCTGGCTGCAGGACTCGTCTTCTGTGTTGTAGCCATTGGA  
 GAATTCATATACAAATCACGGAAGAACAATGACATTGAGCAGAAAAGGAAAGTCAAGACTTAGATTTT  
 ATTTTAGAACAAAGTAAGTTTTCATGGGAGCAAAACAGAAAGCCTTGGTGTAGAGAAAGTCTCTCTTT  
 CAATGCCATCATGGAAGAGCTGGGAATCTCACTCAAGAATCAGAAAAAATTAAGAAAAAGTCAAGAACT  
 AAGGGCAATCTCTTTCACAAGTATCCTTACTTGTGCATCAGAGACGAACTCAGAAAAAGAGACTGTGG  
 CGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

<b>ACCN:</b>	NM_146072
<b>Insert Size:</b>	2805 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_146072.4</a> , <a href="#">NP_666184.2</a>
<b>RefSeq Size:</b>	3660 bp
<b>RefSeq ORF:</b>	2805 bp
<b>Locus ID:</b>	14805
<b>Cytogenetics:</b>	16 50.23 cM
<b>Gene Summary:</b>	<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 (CAG-&gt;CGG; Q-&gt;R) within the second transmembrane domain, which is thought to alter the properties of ion flow. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). RNA editing (CAG-&gt;CGG) changes Gln621Arg.</p>