

Product datasheet for **RN200377**

Grik1 (NM_001111117) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik1 (NM_001111117) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grik1
Synonyms:	GluK1; GluR5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN200377 representing NM_001111117

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCGCAGCACAGTCCTTATCCAACCCGGGCTCTGGACCAGGGACACCAGCTGGACACTCCTCTATT
 TCCTGTGCTACATCCTCCCTCAGACCTCCCTCAAGTGCTCAGGATCGGAGGGATTTTTGAAACTGTGGA
 AAATGAACCTGTTAATGTTGAAGAATTAGCTTTCAAGTTTGCAAGTACCAGTATTAACCGAAACCGAACC
 TTGATGCCAATACCACATTAACCTATGACATCCAGAGAATTAATCTTTTTGATAGTTTTGAAGCCTCCC
 GAAGAGCATGCGACCAGCTGGCTCTCGGGGTGGCCGCACTCTCGGCCCTTCCCACAGCTCCTCCGTCAG
 TGCTGTACAGTCTATTTGCAATGCTCTGGAAGTCCACACATTGACTCGCTGGAACACCCTTCCGTCG
 GACAGCAGAGACCTATTTATATCAACCTTACCCGGACTATGCGGCTATCAGCAGGGCGGTCTGGATT
 TGGTCTCTATTACAACGGAAAACAGTGACGGTGGTGTATGAAGACAGCACAGGTCTAATTCGTCGCA
 AGAGCTCATCAAAGCTCCCTCCAGATACAACATTAATAAATCAAAATCCGCCAGCTTCCCCCTGCGAATAAA
 GACGCCAAACCTCTGCTCAAGGAGATGAAGAAAAGCAAAGAGTTCTATGTGATATTTGATTGTTCCGACCG
 AAACAGCTGCGGAAATTTTAAGCAGATTTTGTTCATGGGCATGATGACTGAATATTACTACTTCTT
 CACAACCTGGACTTGTTTGCTTATAGTCTGGAACCTATAGGTACAGCGGTGTAATATGACTGGATTT
 CGGTTGCTGAATATTGACAACCTCACGTGTATCCATCATTGAGAAGTGGTCCATGGAGAGGTTGCAGG
 CCCCAGCCAGACCCGAGACTGGTCTTCTGGATGGCATGATGACAACTGAAGCAGCGCTGATGTACGATGC
 TGTGTACATGGTAGCCATTGCGTCCCACCGTGCCTCTCAGCTGACCGTCAGCTCCCTGCAGTGCCATCGA
 CATAAGCCATGGCGCCTTGGACCCAGATTTATGAACCTCATCAAAGAGGCTCGGTGGGACGGCTTGACTG
 GCGGATCACCTTCAATAAGACCGATGGCTTGGAAAAGGATTTTACCTGGACATTATCAGTCTCAAAGA
 GGAAGGAACTGAAAAGGCTCTGGTGAAGTGTCTAAACACTTGTATAAAGTGTGGAAGAAGATTGGGATT
 TGGAACTCCAACAGTGGGCTGAACATGACGGATGGCAACAGAGACAGGTCCAACAATATCACGGACTCGC
 TGGCTAACCGCACACTATTGTCAACACTATTCTGGAAGAGCCCTACGTGATGTACAGGAAATCCGATAA
 GCCCTTGATGGAACGACAGGTTTGAAGGATATTGCCTGGATCTGCTGAAAGAACTGTCCAATATCCTG
 GGTTCCTTTACGATGTTAACTGGTTCCTGATGGCAAATATGGAGCACAGAATGACAAAGGGGAATGGA
 ATGGGATGGTAAAAGAACTCATCGACCACAGAGCTGACCTGGCAGTGGCCCTCTCACCATCACATACGT
 ACGGGAGAAAGTCATTGACTTCTCAAGCCCTTATGACCCTGGGCATTAGCATCCTTTACCGGAAGCCC
 AATGGAACCAACCCGGGTGCTTCTCCTTCTCAACCCCTATCTCCGGACATTTGGATGTACGTGCTGC
 TCGCCTGCCTAGGAGTCAGTTGTACTGTTTGTGATTGCGAGGTTACACCCCTACGAGTGGTATAACCC
 CCACCCATGCAACCCCGACTCAGACGTGGTGGAAAACAATTTCACTTTGCTAAATAGTTTCTGGTTTGG
 GTTGGAGCTCTCATGACGCAAGGATCAGAGCTGATGCCCAAGGCTCTATCGACCAGAATAGTTGGAGGAA
 TATGGTGGTTTTTACCCTAATCATATTTTATCCTACACGGCCAACCTGGCTGCCTTCTTACGGTGA
 AAGAATGGAATCCCCATCGATTCCGCAGACGATCTGGCCAAACAACCAAGATAGAATATGGGGCAGTC
 AGAGATGGCTCGACGATGACCTTCTTCAAGAAATCAAAGATCTCCACCTATGAGAAAATGTGGGCTTTCA
 TGAGCAGTAGACAGCAGAGCGCACTGGTTAAAAACAGTGACGAGGGGATCCAAGGGTGTCAACACCGA
 CTACGCACTGCTGATGGAGTCCACCAGCATTGAGTATGTGACGCAGAGGAACTGCAACCTCACTCAGATC
 GGGGGCCTCATAGACTCCAAGGCTATGGAGTGGGGACGCTATCGGCTCCCTTACCGGATAAAATTA
 CGATTGCCATTCTCAACTGCAAGAAGAAGGGAAGCTTCATATGATGAAAGAGAAGTGGTGGAGGGGAA
 TGGCTGCCTGAAGAAGACAGTAAGGAAGCCAGTGTCTGGGAGTGGAAAATATCGGCGGCATCTTCATT
 GTTCTGGCTGCAGGACTCGTGCTTTCTGTGTTGTAGCCATTGGAGAATTTTTATACAAATCACGGAAGA
 ACAATGACGTTGAGCAGAAAGGAAAGTCATCAAGACTTAGATTTTATTTAGGAACAAAGTAAGGTTTCA
 TGGGAGCAAAAAAGAGAGCCTTGGTGTAGAGAAGTGTCTCTTTCAATGCCATCATGGAAGAGCTGGGA
 ATATCCCTCAAGAATCAGAAAAAATTAAGAAAAAGTCAAGAATAAGGGCAAATCTTCTTTCACAAGTA
 TCCTTACTTGTACCAGAGACGAACTCAGAGAAAAGACAGTGGCGTGA

 A**CGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001111117
Insert Size:	2850 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_001111117.1 , NP_001104587.1
RefSeq Size:	3331 bp
RefSeq ORF:	2850 bp
Locus ID:	29559
UniProt ID:	P22756
Cytogenetics:	11q11
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 (CAG->CGG; Q->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 longest isoform (1). RNA editing (CAG->CGG) changes Gln636Arg.</p>