

Product datasheet for **MC220723**

Grik1 (BC031822) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik1 (BC031822) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grik1
Synonyms:	MGC25101
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC031822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAATACCACATTAACTATGACATCCAGAGAATTAATCTTTTGTAGTTTTGAAGCCTCCCGAA
 GAGCATGCGACCAACTGGCTCTTGGGGTGGCCGCCTCTTCGGTCTTCCACAGCTCCTCCGTCAGTGC
 TGTACAGTCTATTTGCAATGCTCTGGAAGTTCCACACATTCAGACTCGCTGGAACACCCCTTCTGTGGAC
 AACAGAGACTTATTTACATCAACCTCTACCCAGATTATGCAGCTATCAGCAGGGCAGTCTGGATCTGG
 TCCTCTATTACAAGTGGAAAACAGTGACGGTGGTGTACGAAGACAGCACAGGTCTAATTCGTCGCAAGA
 GCTCATCAAAGCTCCCTCCAGATACAACATCAAAATCAAATCCGCCAGCTTCCCTCTGGCAATAAGGAT
 GCCAAACCTCTGCTCAAGGAGATGAAGAAAGGCAAGGAGTTCTATGTGATATTTGATTGTCGCACGAGA
 CGGCTGCTGAAATTTCTAAGCAGATTTTGTTCATGGGCATGATGACTGAATACTATCACTACTTCTTAC
 AACCTGGACTTGTGCTTTGGATCTGGAACCTACAGGTACAGTGGTGTAAATATGACTGGATTTCCGG
 TTGCTGAATATTGACAACCTCACGTGTATCCATCATTGAGAAGTGGTCCATGGAGAGATTGCAGGCC
 CACCCAGACCTGAGACTGGTCTCCTGGACGGCGTGATGACAACCTGAAGCAGCTCTGATGTACGATGCTGT
 GTACATGGTAGCCATCGCCTCTCACCGTGCCTCTCAGCTGACCGTCAGTCCCTGCAGTGCCATCGACAT
 AAGCCATGGCGCCTAGGACCCAGATTTATGAACCTCATCAAAGAGGCGCGGTGGGATGGCTTGACGGGGC
 GGATCACCTTCAATAAGACGGATGGCTTGAAGAAAGGATTTGACCTGGACATTATCAGTCTCAAAGAGGA
 AGGAAGTGAAGGATTGGGATTTGGAACCCAACAGTGGGCTGAACATGACGGATGGCAACAGAGACAGG
 TCCAACAATATCAGAGATTCGCTGGCTAACCGAACGCTCATTGTCACCACTATTCTGGAAGAGCCCTACG
 TGATGTACAGGAAATCCGATAAACCACTGTACGGAAATGACAGATTTGAAGGATATTGCCTGGATTTG
 GAAAGAAGTGTCAAATATCCTAGGTTTCCCTTATGATGTTAAACTGGTTCCTGACGGCAAATATGGAGCC
 CAGAATGACAAAGGGGAGTGAACGGGATGGTTAAGGAACCTATCGACCACAGAGCTGACCTAGCAGTGG
 CCCCTCTACCATCACGTATGTACGGGAGAAAGTCACTGACTTCTCCAAGCCTTTCATGACTCTGGGCAT
 TAGCATCCTTTACCGGAAGCCCAATGGAACCAACCCCGCGCTTCTCCTTCCCAACCCCTGTCTCCA
 GACATTTGGATGTATGTCTCCTCGCTTGCCTAGGAGTCAAGTGTGTGCTTTTGTGATTGCAAGGTTCA
 CACCCTACGAGTGGTATAACCCCAACCGTGAACCTGACTCAGACGTGGTGGAAAACAATTTCACTTT
 GCTAAATAGTTTCTGGTTTGGCGTTGGAGCTCTCATGCGGCAAGGATCGGAGCTGATGCCAAAGGCTCTA
 TCGACCAGAATAGTTGGAGGAATATGGTGGTTTTTACCCTAATCATCATCTCATCTCACTGCCAAC
 TGCTGCCTTCTTGACAGTAGAAAGGATGGAATCCCCATCGATTCCGCAGACGACTGGCCAAACAAC
 CAAGATAGAATACGGGGCAGTCAAGAGATGGCTCGACAATGACCTTCTTCAAGAAATCAAAAATCTCCACG
 TATGAGAAAATGTGGGCTTTCATGAGCAGTAGACAGCAGAGCGCCCTGGTTAAAAACAGCGATGAGGGGA
 TCCAAAGGGTGTACCACCGACTACGCCCTGCTGATGGAGTCCACCAGCATTGAGTATGTGACACAGAG
 GAACTGCAACCTCACTCAGATCGGGGCCCTCATAGACTCAAAGGCTATGGAGTGGGGACACCTATCGGC
 TCCCTTACCGGGATAAAAATACAATTGCTATTCTTCACTACAAGAAGAAGGGAAGCTTCATATGATGA
 AAGAGAAATGGTGGAGGGGAAATGGCTGCCCTGAAGAAGACAGTAAAGAAGCCAGTGTCTAGGAGTGA
 AAATATCGGGGTATCTTCAATTGTTCTGGCTGCAGGACTCGTCTTCTGTGTTTGTAGCCATTGGAGAA
 TTCAATACAAAATCACGGAAGAACAATGACATTGAGCAGGCTTTTTGTTTCTTTTATGGACTGCAGTGA
 AACAAACCATCCGACCAACTCCACTTCCGGGACTACATTATCTACAGATGTAGAGTGTGGCAAATTATT
 ACGAGAGGAAAAGGGGATTCCGACACAGCCCTCAGTCCATACTGTATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC031822
 Insert Size: 2499 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:	BC031822 , AAH31822
RefSeq Size:	3020 bp
RefSeq ORF:	2498 bp
Locus ID:	14805
Cytogenetics:	16 50.23 cM
Gene Summary:	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]