

## Product datasheet for MC206032

### Grik5 (BC052009) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grik5 (BC052009) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grik5
Synonyms:	GluK5; GluRgamma2; KA2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC052009  
 CCTGGCCCGCCCTTTGCTTTTCCACCTGTCTTCTCCCCGCTGTGGGAGACACCGTTTTGGATTAGT  
 TGGGGCCACCGCCGGCGGGGAGGGGCCAGTGGACTGCCCTCTCCCCGGCCCCAGCCTACCA  
 GCACCCAGCATCGAGCACCTCCTGTTGTCGTTCTCGGCCTCGAGGGAGCCAGCCCTCCGTCCCAC  
 CAGGATCCGTGGCGAGTGGGGCCGCGGAGCTGCGTCCCATGAGGAGGGAGGAAGATGCCGGTGAG  
 CTGCTGTCTGTGATAGTCGCTTCGCCAATCCCAGCTGCCAGGTGCTGTCACTGCGCATGGCTG  
 CAATCCTGGACGACCAGACCGTGTGTGGCCGTGGTGGAGCGTGTGGCCCTGGCCCTGGCCGAGAGCAGAT  
 CAATGGGATCATCGAGGTCCCAGCCAAGGCCAGAGTGAAGTAGACATCTTTGAGCTGCAGCGGGACAGC  
 CAGTACGAGACCAGGACACCATGTGTGAGATCCTGCCAAGGGGTTGTATCTGTCTTTGGGACCTCCT  
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 GTCAGCCTGGCAGTCTCCGAATCCTCAAGTCCTTAACTACCCCTCAGCTAGCCTCATCTGCGCCAAGG  
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 GATGCTTGATGACAGCCGGGACCCACGCGCTACTCAAGGAGATCCGAGATGACAAAGTGTCCACCATC  
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 ACTGGCCTGCACTTCGGCCAACATTTGGCCCCATGGGACCAGCCTTATGAACCTACCTTCGAATGGTAGAG  
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 CTACGGGGCACCTGAGCCCAACGGTTCTGGACAGGCATGGTTGGAGAAGTCAACCCGGAAGGCAGAC  
 CTGGCTGTGCGAGCCTTACCATCACCGCCGAGAGGGAGAAGGTATCGACTTCTCCAAGCCCTTACATGA



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CCCTGGGGATCAGCATCCTCTACAGGGTGCACATGGGCCGCAAGCCTGGCTACTTCTCCTTCTGGACCC
CTTCTCCCTGCCGTGTGGCTCTTCATGCTTCTTGGCTACCTGGCTGTCAGCTGTGTCTTGTTCCTGGCT
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CCCCTGTTGCCCTCTCTCTTTCTCTTTTTTGGGGGAGAAACCTCAGAAATTTCTATGAGACGC
CCCCAGGAGAGGGTCTCTTGGGCCCTATACCTCCCCCTGCCACATCCCAGTCTGTTGGAATAAAAAA
AAGAACAACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Ascl-NotI
- ACCN:** BC052009
- Insert Size:** 2940 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:**
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:** [BC052009](#), [AAH52009](#)

RefSeq Size: 3753 bp

RefSeq ORF: 2940 bp

Locus ID: 14809

Cytogenetics: 7 13.73 cM

**Gene Summary:** Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds kainate > quisqualate = glutamate >> AMPA.[UniProtKB/Swiss-Prot Function]