

## Product datasheet for **MC206103**

### **Grm4 (BC080284) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grm4 (BC080284) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm4
Synonyms:	Gprc1d; mGluR4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC080284  
 AATGGTCCACCCCATCGGCCTTCAGCAGCCATCCTGTTGCTGAAGCTGCGCTGTCCATGTACACCCAGAT  
 CATGGGACCCAGGGCCTGCTAGGGCTAGGAGTGGGGCCCGCTATTCATGGGTCTCTAAGCCTTTCCGAAA  
 TGTCCGGGAAGGGAGGCTGGGCCTGGTGGTGGGCCCGGCTGCCCTCTGCCTACTCCTCAGCCTTTATGG  
 CTCTGGGTGCCTTCATCCCTAGGAAAGCCCAAGGGTACCCCCACATGAACTCTATCCGTATCGATGGA  
 GACATCACCTGGGAGGCTGTTTTCCCGTCCACGGTCGCGGCTCCGAGGGCAAGGCTCGGCGAGTTGA  
 AGAAGGAGAAAGGTATCCACCGGCTGGAGGCCATGCTCTTTGCCCTGGACCGCATCAACAACGACCCGGA  
 CCTACTGCCAACATCAGTTGGGCGCCGCATTCTGGACACTGCTCAAGGGATACCCACGCCCTGGAG  
 CAGTCCCTGACCTTTGTGCAGGGCTCATCGAGAAGGACGGCACGGAGGTCGGCTGCGGCAGCGGGGCC  
 CACCCATCATACCAAGCCTGAACGAGTGGTGGGTGTCATCGGAGCTTCGGGGAGCTCCGCTCTCGATCAT  
 GGTGGCCAACATCCTCCGCCTTCAAGATCCCCCAGATCAGCTACGCTCCACGGCTCCCGACTTGAGT  
 GATAACAGCCGCTATGACTTCTTCTCCCGGCTCGTCCCTCGACACATAACAGGCCCAGGCCATGGTGG  
 ACATCGTCCGGGCCCTCAAGTGGAACTATGTGCCACGCTGGCCTCAGAGGGTAGCTACGGCGAGAGCGG  
 CGTGGAGGCCCTTATCCAGAAGTCCCGAGAGAACGGAGGCGTGTGCATTGCCAGTGGTGAAGATTCCA  
 CGGAACCCAAGACCGGGGAGTTTGACAAGATCATCAAACGCCTTCTGGAACGTCCAATGCCAGAGCCA  
 TCATCATCTTTGCCAACGAGGATGATATCAGGAGGGTGTGGAGGCGAGCGCAGGGCCAACAGACCGG  
 CCACTTCTTTGGATGGGTTCTGATAGCTGGGGCTCCAAGAGCGCCCCGTGCTGCGCCTTGAGGAAGTG  
 GCTGAAGTGCAGTACCATTCTTCCAAAGAGGACGTCTGTGCGAGGGTTTGACCATACTTCTCCAGCC  
 GCACGCTTGACAACAACAGGCGCAACATCTGGTTTGTGAGTTCTGGGAGGACAACCTCCATTGCAAGTT  
 GAGCCGCCACGCGCTCAAGAAGGGAAAGCCACATCAAGAAGTGCACCAACCGAGAGCGCATCGGGCAGGAC  
 TCGGCCTACGAACAGGAGGGGAAGTGCAGTTTGTGATCGACGCCGTGTACGCCATGGGCCATGCTCTGC  
 ACGCCATGCATCGTGACCTGTGTCCCGCCGCTAGGACTCTGCCCTCGAATGGACCCTGTGGATGGCAC  
 CCAGTCTTAAGTACATCAGAAACGTCAACTTCTCAGGCATCGCCGGAAACCCGTTGACCTTCAACGAG  
 AACGGAGACGCGCCAGGGCGTTATGACATCTACCAGTACCAACGTCGCAACGGCTCGGCTGAGTACAAGG  
 TCATCGGCTCATGGACAGACCACTTGCACCTCAGAATAGAGCGGATGCAGTGGCCAGGGAGTGGCCAGCA  
 GCTGCCACGCTCCATCTGCAGCTGCCCTGCCAGCCAGGCGAGCGGAAGAAGACGGTGAAGGGCATGGCT  
 TGCTGCTGGCACTGCGAGCCCTGCACGGGTACCAGTACCAGGTGGACCCTACACCTGTAAAGACCTGCC  
 CCTATGACATGCGGCCACGGAGAACCACGAGCTGCCAGCCATACCCATTGTCAAGTTGGAGTGGGA  
 CTCACCTGGGCTGTGCTGCCCTTCTCTGGCTGTGGTGGGCATTGCTGCCACGCTGTTCTGTGGTGGTC  
 ACTTTTGTGCGCTACAACGACACTCCGATCGTCAAGGCCCTCGGGCCGGGAGCTGAGCTACGCTCTGCTGG  
 CGGGCATCTTTCTGCTATGCCACCACCTTCTCATGATCGCAGAGCCTGACCTGGGGACCTGTTCACT  
 CGCCCGCATCTTCTGGGCTTGGCATGAGCATCAGCTACGCGGCCCTGTGACCAAGACCAACCGCATC  
 TACCGCATCTTTGAGCAGGGCAAGCGGTGCGTACGCGCCACCGTTTCATCAGCCCCGCCTCGCAGCTGG  
 CCATCACCTTCGTCTCATCTCGCTGCAGTTGCTTGGCATCTGCGTGTGGTTCTGTGGTGGACCCCTCCCA  
 CTCGGTGGTGGACTTCCAGGACCAGCGGACACTTGACCCCGCTTCGCCCGGGGTGTGCTCAAGTGTGAC  
 ATCTCGGACCTGTGCTCATCTGCCTCTGGGCTACAGCATGCTGCTGATGGTCACTGTACTGTGTATG  
 CCATCAAGACTCGAGGCGTGCCTGAGACCTTCAATGAGGCCAAGCCCATCGGCTTACCATGTACACCAC  
 CTGCATCGTCTGGCTGGCCTTCAATCCCATCTTTTTTGGCACCTCGCAGTGGCTGACAAGGTAACCTCT  
 GAGGCCCTGCCGTGGAATTCAGCCCGCATTGCTGGCACATAATTAAGCATGTACCATAATTTGCTT  
 TTTTTCCCTTACAAAGCCATAAATTATGTTTTATTGCAAGTGAAGGGGGAAAAGCAGGGGAAAAGAAA  
 ACAAAGAGAGGGGGGGGGGAGGAACCCGGGCTAGGCTTCTTAGCCAGGGTCTCCCTGCCTTCTGG  
 GGGCACTTCCCCTCAGCATCTCTGGAACTCCCTTAGCCCTGCCTGATGGCCCGCCAGGGGAGAGCA  
 GAAACTGTGTCCGAAGGGATGATTCTAAGTTGGGAGCAGGCACGAGGGAGCCCCGTCATCTTCTGCAGT  
 TGTTGGAAATTTCCATAATAAAAAGTTAAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** BC080284  
**Insert Size:** 2499 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="#">BC080284</a> , <a href="#">AAH80284</a>
<b>RefSeq Size:</b>	3002 bp
<b>RefSeq ORF:</b>	2499 bp
<b>Locus ID:</b>	268934
<b>Cytogenetics:</b>	17 A3.3
<b>Gene Summary:</b>	G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity (By similarity). [UniProtKB/Swiss-Prot Function]