

## Product datasheet for RN201568

### Grm5 (NM\_017012) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grm5 (NM_017012) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grm5
Synonyms:	mGluR5; mGluR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201568 representing NM_017012 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCCTTCTGTTGATCCTGTCAGTCCTACTTCTGAAAGAAGATGTACGAGGGAGTGCACAGTCCAGTG  
AGAGGAGGGTGGTGGCTCACATGCCAGGTGACATCATTATTGGAGCTCTTTCTGTCCACCACCAACC  
AACTGTGGACAAAGTTCATGAGAGGAAGTGTGGTGCAGTTCGTGAGCAATATGGGATTGAGAGTGGAG  
GCCATGCTGCATACCTTGGAAAGGATCAACTCAGATCCCACACTTTGCCAACATCACACTTGGCTGTG  
AGATCAGAGATTCTGTGGCATTCCGCTGTGGCCCTAGAACAAAGCATTGAGTTATAAGGGATCCCT  
CATCTCTTCAGAAGAGGAGGAAGTTTGGTACGCTGTGTAGATGGATCTTCTTCCCTCCGCTCCAAGAAA  
CCCATAGTGGGAGTCATTGGCCCTGGCTCGAGTTCGTGGCCATTCAAGTCCAGAACTTACTCCAGCTTT  
TCAACATACCACAGATTGCTTACTCTGCAACCAGCATGGATTTGAGTGACAAGACTCTATTCAAGTACTT  
CATGAGGGTGTACCTCCGATGCCAGCAAGCTCGAGCCATGGTAGACATAGTGAAGAGATACAAGTGG  
ACTTATGTCTCAGCTGTGCACACAGAAGGCAACTATGGAGAAAGTGGGATGGAGGCTTTCAAAGATATGT  
CAGCGAAGGAAGGGATTGCATCGCCACTTTACAAAATTTACAGCAATGCTGGGGAACAGAGCTTTGA  
CAAGCTGTTGAAAAAAGTCAAGAGTCATTTACCTAAAGCCCGGTGGTAGCTTCTGTGAAGGCATG  
ACAGTTCGAGGCTGCTCATGGCCATGAGACGCTTAGGTCTAGCAGGGGAGTTTCTACTTCTGGCAGTG  
ATGGCTGGGCCGACAGGTATGACGTGACAGATGGATATCAGCGAGAAGCTGTGGTGAATTACAATCAA  
GCTTCAGTCTCCTGATGTCAAGTGGTTTGTGATTATTATCTGAAACTCCGGCCAGAAAACAACTCAGA  
AACCTTGGTTTCAAGAATTTGGCAGCATCGTTTTCAGTGCCGGCTGGAAGGGTTGCACAGGAGAACA  
GCAAGTACAACAAGACTTGAACAGTTCTCTGACTCTGAGAACACATCATGTTCAAGATTCAAAAATGGG  
ATTTGTGATAAATGCAATCTATTCTATGGCTTATGGACTCCACAATATGCAGATGTCCTGTGTCCAGGC  
TATGCAGGCTCTGTGATGCGATGAAGCAATTGATGGACGAAACTTTGGATTCCCTGATGAAAACCA  
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AATGAATTTCAAGGAAATGGGAAAAGATTATTTGATTACATCAATGTTGGAAGTTGGGACAATGGGGAA



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TTAAAAATGGATGATGACGAAGTGTGGTCCAAGAAAAAT AACATCATCAGATCTGTGTGCAGTGAACCAT
GTGAGAAAAGGCCAAATAAAGGTGATCCGGAAGGGAGAAGT CAGCTGTTGTTGGACCTGCACACCTTGTA
AGAGAATGAGTATGTGTTTGTGATGAGTACACCTGCAAGGCATGCCAACTGGGCTCTGGCCACTGACGAC
CTGACAGGCTGTGACTTGATCCCAGTCCAGTATCTTCGCTGGGGTGACCTGAGCCGATTGCAGCTGTGG
TGTTTGCTGCCTCGGTCTGCTAGCCACCTTATTCGTTACTGTAATCTTCATCATTTATCGGGACTCC
GGTGGTCAAGTCTCCAGCAGGGAGCTCTGCTACATTATCCTTGGTGCATCTGCCTGGGATACTTATGT
ACCTTTTGCCTCATTGCAAAGCCCAAGCAGATTTACTGCTATCTTCAGAGAATTGGCATTGGACTCTC
CAGCCATGAGCTACTCAGCCCTTGTAACCAAGACCAACCGTATTGCAAGGATTCTAGCTGGAAGCAAGAA
GAAAATCTGTACCAAGAAGCCAGATTCATGAGCGCCTGTGCTCAGTTAGTGATCGCTTTTATTCTCATC
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GCATCCGAGAAGTCTACTTGATTGTAACACCACCAACCTAGGGGTTGTTACTCCTTTGGATACAATGG
ATTATTGATTTTGTGAGTTGCACGTTCTATGCGTTTAAAGACCAGAAATGTTCCAGCCAACTTTAATGAGGC
AAATATATTGCTTTCACCATGTACACAACCTGCATCATATGGCTGGCCTTCGTGCCTATCTACTTTGGCA
GCAACTACAAAATCATCACCATGTGTTTTTCAGTCAGCCTCAGTGCCACAGTGGCCCTGGGTTGCATGTT
TGTCCCGAAGGTGTACATCATCCTAGCCAAACCGAGAGAAATGTGCGCAGCGCCTTCACAACTCTACA
GTGGTACGCATGCATGTAGGAGACGGCAAATCATCGTCCGCTGCCAGCAGATCCAGCAGCCTAGTCAACC
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TGAGAAGAGTACCCGGGGCAACATTTGTGGCAGCGACTGTCTGTCCACATCAACAAGAAGGAGAACCC
AACCAAACGGCGGTATCAAACCTTTCCAAAGACACAGAGAACCGGGGGCCTGGTGCAGCGGCAGGTG
GTGGCTCGGGTCCCGGTGATGCTGGTGTGTAACGCAGGATGCACAGCAACAGGTGGCCCGGAGCCACC
GGACGCCGGTCCCAAAGCGCTTATGATGTGGCGGAGGCAGAGGAGACTTCCCCGGCTGCCAGGCCG
CGCTCGCCATCGCCATCAGCACGTTGAGCCACCTCGCAGGCTCGCGGGCCGCACAGATGATGATGCGC
CGTCGCTGCACCTGAGACAGCTGCTCGCAGCAGCTCGTCCCAGGGCTCGCTCATGGAGCAGATCAGCAG
CGTAGTGACGCGCTTACAGCCAACATCTCCGAGCTCAACTCCATGATGTTGTCCACCGGCCACGCCG
GGCCCCCTGGTACTCCAATCTGCTCCTCTACCTGATCCCCAAAGAGATTAGCTGCCACGACCATGA
CGACCTTCGACAGATCCAGCCGCTGCCGGCCATCGAGGTGACCGGAGGAGCTCAGGGGGCAGCAGGCGT
ATCACCTGCCAGGAGACGCCACAGGAGCTGAATCCGCCCGGGCAAACCAGATCTGGAGGAGCTTGTG
GCCCTCACTCCACCATCGCCCTCAGGGACTCGGTGGACTCGGGGAGCACCACCCCAAACCTCCAGTCT
CAGAATCGGCCCTCTGCATCCCATCCTCTCCAAATATGACACTCTCATCATCAGAGATTACACGCAGAG
TTCTTCATCGTTGTA
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_017012

**Insert Size:**

3516 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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>	<u><a href="#">NM_017012.1</a></u> , <u><a href="#">NP_058708.1</a></u>
<b>RefSeq Size:</b>	3918 bp
<b>RefSeq ORF:</b>	3516 bp
<b>Locus ID:</b>	24418
<b>UniProt ID:</b>	<u><a href="#">P31424</a></u>
<b>Cytogenetics:</b>	1q32
<b>Gene Summary:</b>	may play a role in synaptic transmission; may interact with mGluR1, another group I metabotropic glutamate receptor [RGD, Feb 2006]