

## Product datasheet for **RN201176**

### **Grm2 (NM\_001105711) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grm2 (NM_001105711) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN201176 representing NM\_001105711  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAATCACTGCTTGGGTTTCTGGCACTGCTGCTGTGGGGTGCCGTGGCCGAGGGCCCGCCAAGA  
 AGGTGCTGACCCCTGGAGGGGACCTGGTCTGGGTGGGCTGTCCAGTGCACCAGAAGGGTGGCCAGC  
 CGAGGAGTGTGGACCTGTTAATGAGCACCGAGGCATACAGCGCCTAGAGGCTATGCTTTTTGCACTGGAC  
 CGCATCAACCGGACCCCACTGCTGCCTGGTGTGCGCTTGGGTGCGCACATCTCGACAGCTGTCCA  
 AGGATACACAGCCCTGGAGCAGGCGCTGGACTTTGTGCGTGCCTCACTCAGTCGTGGCGCTGACGGCTC  
 ACGCCACATCTGCTGATGGCTCCTATGCCACCACAGTGATGCTCCTACAGCTGTACCAGGTGTCATT  
 GGTGGCTCCTACAGTGTGTCTCCATCCAGGTGGCCAATCTCCTGCGGCTGTTCCAGATCCACAGATCA  
 GCTATGCCTCCACAGTGCCAAGCTGAGTGACAAGTCCCGTTACGATTACTTTGCTGCACTGTGCCCC  
 AGACTTCTTCCAAGCCAAGGCCATGGCTGAGATTCTCCGCTTTTCAACTGGACATATGTGTCTACGGTG  
 GCATCTGAGGGTACTATGGTGAGACAGGCATTGAGGCTTTCGAGCTCGAGGCTCGGGCACGCAACATCT  
 GCGTGGCCACTTCTGAGAAGGTGGGCCGTGCCATGAGCCGCGCTGCCTTCGAGGGCGTGGTGCAGCCCT  
 GTTGACAGAAACCCAGTGCCCGTGTGGCTGTGCTTACCCGGTCCGAGGATGCCCGTGAGCTGCTTGCA  
 GCCACCCAGCGCTCAACGCCAGCTTACATGGGTGGCCAGCAGCGGCTGGGGGGCCCTGGAGAGCGTGG  
 TGGCAGGCAGTGAAAGGGCTGCTGAGGGCGCCATCACCATTGAACTGGCTCCTACCCCATCAGTGACTT  
 TGCTTCTACTTCCAGAGCTTGGATCCGTGGAACAACAGCAGAAACCCTTGGTCCGTGAGTTCTGGGAG  
 GAGAGGTTCCATTGCAGCTTCCGGCAGCAGACTGTGCCGCCACTCTCTGCGGGCCGTGCCCTTGAAC  
 AGGAGTCAAAGATCATGTTTGTGGTTAATGCCGTCTATGCCATGGCCACGCTCTACACAACATCCCG  
 TGCCCTCTGTCCCAACACCACCCACTCTGCGATGCTATGAGGCCGTGCAATGGGCGCCGCTCTACAAA  
 GACTTCGTGCTCAATGTCAAGTTTACGCCCCCTTTCCGCCAGCAGATACTGACGATGAGGTCGCTTCG  
 ACCGCTTTGGTGACGGTATTGGCCGCTACAACATCTTACCTATCTGCGGGCAGGCAAGTGGCGCTATCG  
 CTACCAGAAGGTAGGCTACTGGGAGAAGGTCTGACTCTGGACACTAGCTTCAATCCATGGGCTCCCCA  
 TCAGCCGACCTTCTGCTCTCGCTGTAGCGAGCCCTGCCTCAGAACGAGGTGAAGAGCGTGCAGC  
 CGGGCAGGTCTGCTGTTGGCTCTGCATTCCCTGTGAGCCCTATGAGTACAGGCTGGATGAGTTCACCTG  
 CGCTGACTGTGGCTGGGCTACTGGCCTAATGCCAGTCTGACTGGCTGCTTTGAGCTGCCCCAGGAGTAC  
 ATCCGCTGGGGTGTGCTGGGCGGTGGGACCTGTACCATCGCCTGCCTGGGTGCCCTGGCGACTCT  
 TTGTGTTGGGTGCTTTGTGAGGCATAATGCCACACCCGTGGTCAAGGCTTCCGGTCCGGAGCTTTGCTA  
 CATTCTGCTGGGCGGTGCTTCTTTGCTATTGTATGACCTTCGCTTTCATTGCTAAGCCTTCCACGGCC  
 GTCTGTACCTTGAGGCGCCTCGGTTTGGGTACCGCCTTCTGTCTGCTACTCAGCCCTCCTACCAAGA  
 CCAATCGATTGCTCGCATATTTGGCGGGCCCGGAGGGTGCCAGCGGCCACGCTTATCAGTCCCGC  
 CTCACAGGTGGCCATCTGCTTGGCACTTATCTCGGGCAGCTGCTCATTGTGCTGCCTGGCTGGTGGTG  
 GAGGCACCTGGCACAGGCAAGGAGACAGCCCTGAACGGCGGGAAGTGGTGACATTGCGCTGAACCACC  
 GTGACGCGAGCATGCTCGGCTCACTGGCCTACAATGTGCTCCTCATCGCGCTCTGCACGCTCTATGCCT  
 CAAGACCCGCAAGTGCCCGGAGAACTTCAACGAAGCCAAGTTTCATCGGCTTACCATGTACACCACCTGC  
 ATCATCTGGCTGGCTTTCTTCTATCTTCTATGTACCTCCAGTGATTATCGGGTGCAGACCACACGA  
 TGTGCGTGTCCGTGAGCCTCAGTGGCTCTGTTGGTCTTGGCTGCCTTTTGCACCAAGTTGCACATCAT  
 CCTTTTCCAGCCACAGAAGAATGTGGTGAAGGCTGGATCCAGTTCAGTTCCTTCCACTGTTTGAACGGCCGTGAGG  
 TGGTGGACTCAACAACGTCGCTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1349\\_f10.zip](https://cdn.origene.com/chromatograms/ja1349_f10.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001105711

<b>Insert Size:</b>	2619 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>	<u><a href="#">NM_001105711.1</a></u> , <u><a href="#">NP_001099181.1</a></u>
<b>RefSeq Size:</b>	4580 bp
<b>RefSeq ORF:</b>	2619 bp
<b>Locus ID:</b>	24415
<b>UniProt ID:</b>	<u><a href="#">P31421</a></u>
<b>Cytogenetics:</b>	8q32
<b>Gene Summary:</b>	mediates synaptic transmission; may be involved in brain microvascular function [RGD, Feb 2006]