

## Product datasheet for **RN200512**

### **Grm1 (NM\_001114330) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grm1 (NM_001114330) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grm1
Synonyms:	Gprc1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN200512 representing NM\_001114330  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTCCGGCTCCTCTTGATTTTCTTCCAATGATCTTTTTGGAGATGTCCATTTTGCCAGGATGCCTG  
 ACAGAAAAGTATTGCTGGCAGGTGCCTCGTCCCAGCGCTCCGTGGCGAGAATGGACGGAGATGTATCAT  
 CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAGAAGGTACCCGAAAGGAAGTGTGGGAGATC  
 AGGGAACAGTATGGTATCCAGAGGGTGGAGGCCATGTTCCACACGTTGGATAAGATTAACCGGACCCGG  
 TGCTCCTGCCAACATCACTCTGGGCAGTGGAGTCCGGGACTCCTGCTGGCACTTTCAGTGGCTCTCGA  
 ACAGAGCATCGAATTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGGCTGAACCGATGC  
 CTGCCTGATGGCCAGACCCTGCCCCCTGGCAGGACTAAGAAGCCTATTGCTGGAGTATCGGCCCTGGCT  
 CCAGCTCTGTGGCATTCAAGTCCAGAATCTTCCAGCTGTTGACATCCACAGATCGCCTATTCTGC  
 CACAAGCATAGACCTGAGTGACAAAACCTTGTACAAAATCTTCCAGGGTGGTCCCTTCTGACACTTTG  
 CAGGCAAGGGCGATGCTCGACATAGTCAAGCGTTACAACCTGGACCTATGTCTCAGCAGTCCACACAGAAG  
 GGAATTACGGCGAGAGTGAATGGATGCTTTCAAAGAAGTGGCTGCCAGGAAGGCCCTGCATCGCACA  
 CTCGGACAAAATCTACAGCAATGCTGGCAGAGAAGACTTTGACCGGCTCCTGCGTAAACTCCGGGAGCGG  
 CTTCCAAAGGCCAGGGTGTGGTCTGCTTCTGCGAGGGCATGACAGTGGGGGCTTACTGAGTGCATGC  
 GCCGCTGGGCGTCTGGGCGAGTCTCACTCATTGGAAGTATGGATGGCAGACAGAGATGAAGTCAT  
 CGAAGGCTATGAGGTGAAGCCAACGGAGGGATCACAATAAGCTTCAGTCTCCAGAGTCCAGTCAATTT  
 GATGACTACTTCTGAAGCTGAGGCTGGACACCAACAAGGAATCCTTGGTCCCTGAGTCTCTGGCAAC  
 ATCGCTTCCAGTGTCCCTACCTGGACACCTCTTGGAAAACCCCAACTTAAAGAAAGTGCACAGGAAA  
 TGAAGCTTGAAGAAAATATGTCCAGGACAGCAAAAATGGGATTTGTCATCAATGCCATCTATGCCATG  
 GCACATGGGCTGCAGAACATGCACCATGCTCTGTGTCGGCCATGTGGGCTGTGTGATGCTATGAAAC  
 CCATTGATGGCAGGAAGCTCCTGGATTTCTCATCAAATCCTCTTTTGTGGAGTGTCTGGAGAGGAGGT  
 GTGGTTCGATGAGAAGGGGGATGCTCCCGAAGGTATGACATTATGAATCTGCAGTACACAGAAGCTAAT  
 CGCTATGACTATGTCCACGTGGGACCTGGCATGAAGGAGTGTGAATATTGATGATTACAAAATCCAGA  
 TGAACAAAAGCGAATGGTACGATCTGTGTGCAGTGGCCTTGTAAAGGGTCAAGTAAAGTGCATACG  
 GAAAGGAGAAGTGAAGTGTGCTGGATCTGCACGGCCTGCAAAGAGAATGAGTTTGTGCAGGACGAGTTC  
 ACCTGCAGAGCCTGTGACCTGGGGTGGTGGCCCAACGCAGAGCTCACAGGCTGTGAGCCATTCTGTCC  
 GTTATCTTGAGTGGAGTACATAGAATCTATCATAGCCATCGCCTTTTCTTGCCTGGGCATCCTCGTGAC  
 GCTGTTTGTACCCCTCATCTTCTGTACCGGGACACACCCGTTGGTCAAATCCTCCAGTAGGGAGCTC  
 TGCTATATCATTCTGGCTGGTATTTTCTCGGCTATGTGTGCCCTTTACCCCTCATCGCCAAACCTACTA  
 CCACATCTGCTACCTCCAGCGCCTCCTAGTTGGCCTCTCTTCTGCCATGTGCTACTCTGCTTTAGTGAC  
 CAAAACCAATCGTATTGCACGCATCCTGGCTGGCAGCAAGAAGAAGATCTGCACCCGGAAGCCAGATTC  
 ATGAGCGCTTGGGCCAAGTATCATAGCCTCCATTCTGATTAGTGTACAGCTAACACTAGTGGTGACCT  
 TGATCATCATGGAGCCTCCATGCCATTTTGTCTACCCGAGTATCAAGGAAGTCTACCTATCTGCAA  
 TACCAGCAACCTGGGTGTAGTGGCCCTGTGGTTACAATGGACTCCTCATCATGAGCTGTACCTACTACT  
 GCCTTCAAGACCCGCAACGTGCCGGCCAACTTCAATGAGGCTAAATACATCGCCTTCAACCATGTACACTA  
 CCTGCATCATCTGGCTGGCTTCTGTTCCATTTACTTTGGGAGCAACTACAAGATCATCACTACCTGCTT  
 CGCGGTGAGCCTCAGTGTGACGGTGGCCCTGGGGTGCATGTTTACTCCGAAGATGTACATCATATTGCC  
 AAACCTGAGAGGAACGTCCGCAGTGCCTTACGACCTCTGATGTTGTCCGCATGCACGTCGGTGTGGCA  
 AACTGCCGTGCCCTCCAACACCTTCTCAACATTTTCCGGAGAAAGAAGCCGGGGCAGGGGAATGCCAA  
 GAAGAGGCAGCCAGAATTCTCGCCAGCAGCCAGTGTCCGTGGCACATGCGCAGCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001114330

<b>Insert Size:</b>	2721 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_001114330.1</a></u> , <u><a href="#">NP_001107802.1</a></u>
<b>RefSeq Size:</b>	6905 bp
<b>RefSeq ORF:</b>	2721 bp
<b>Locus ID:</b>	24414
<b>UniProt ID:</b>	<u><a href="#">P23385</a></u>
<b>Cytogenetics:</b>	1p13
<b>Gene Summary:</b>	may play a role in synaptic transmission; may modulate perception of pain in arthritis [RGD, Feb 2006] Transcript Variant: his variant (2) encodes the shorter isoform (beta). Isoform beta has a different subcellular distribution than isoform alpha and may be functionally distinct due to differential G-protein coupling of its novel C-terminal sequence.