

## Product datasheet for **RR200512**

### **Grm1 (NM\_001114330) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR200512 representing NM\_001114330  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCCGGCTCCTCTTGATTTTCTTCCAATGATCTTTTTGGAGATGTCCATTTTGCCAGGATGCCTG  
 ACAGAAAAGTATTGCTGGCAGGTGCCTCGTCCCAGCGCTCCGTGGCGAGAATGGACGGAGATGTCATCAT  
 CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAGAAGGTACCCGAAAGGAAGTGTGGGGAGATC  
 AGGGAACAGTATGGTATCCAGAGGGTGGAGGCCATGTTCCACACGTTGGATAAGATTAACCGGACCCGG  
 TGCTCCTGCCAACATCACTCTGGGCAGTGGAGTCCGGGACTCCTGCTGGCACTTTCAGTGGCTCTCGA  
 ACAGAGCATCGAATTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGGCTGAACCGATGC  
 CTGCCTGATGGCCAGACCCTGCCCCCTGGCAGGACTAAGAAGCCTATTGCTGGAGTATCGGCCCTGGCT  
 CCAGCTCTGTGGCATTCAAGTCCAGAATCTTCTCCAGCTGTTGACATCCACAGATCGCTATTCTGC  
 CACAAGCATAGACCTGAGTGACAAAACCTTGTACAAAATCTTCTGAGGGTGGTCCCTTCTGACACTTTG  
 CAGGCAAGGGCGATGCTCGACATAGTCAAGCGTTACAACCTGGACCTATGTCTCAGCAGTCCACACAGAAG  
 GGAATTACGGCGAGAGTGAATGGATGCTTTCAAAGAAGTGGCTGCCAGGAAGGCCCTGCATCGCACA  
 CTCGGACAAAATCTACAGCAATGCTGGCAGAGAAGACTTTGACCGGCTCCTGCGTAAACTCCGGGAGCGG  
 CTTCCAAAGGCCAGGGTGTGGTCTGCTTCTGCGAGGGCATGACAGTGGGGGCTTACTGAGTGCATGC  
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 CGAAGGCTATGAGGTGAAGCCAACGGAGGGATCACAATAAGCTTCAGTCTCCAGAGGTCAGGTCATTT  
 GATGACTACTTCTGAAGCTGAGGCTGGACACCAACAAGGAATCCTTGGTCCCTGAGTCTCTGGCAAC  
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 TGAAGCTTGAAGAAAACCTATGTCCAGGACAGCAAAAATGGGATTTGTCATCAATGCCATCTATGCCATG  
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 GTGGTTCGATGAGAAGGGGGATGCTCCCGAAGGTATGACATTATGAATCTGCAGTACACAGAAGCTAAT  
 CGCTATGACTATGTCCACGTGGGACCTGGCATGAAGGAGTGTGAATATTGATGATTACAAAATCCAGA  
 TGAACAAAAGCGAATGGTACGATCTGTGTGCAGTGGCCTTGTAAAGGGTCAGATTAAGGTCATACG  
 GAAAGGAGAAGTGAAGTGTGCTGGATCTGCACGGCCTGCAAAGAGAATGAGTTTGTGCAGGACGAGTTC  
 ACCTGCAGAGCCTGTGACCTGGGGTGGTGGCCCAACGCAGAGCTCACAGGCTGTGAGCCATTCTGTCC  
 GTTATCTTGAGTGGAGTACATAGAATCTATCATAGCCATCGCCTTTTCTGCTGGGCATCCTCGTGAC  
 GCTGTTTGTACCCCTCATCTTCTGTTCTGTACCGGACACACCCGTTGGTCAAATCCTCCAGTAGGGAGCTC  
 TGCTATATCATTCTGGCTGGTATTTTCTCGGCTATGTGTGCCCTTTACCCCTCATCGCCAAACCTACTA  
 CCACATCTGTACCTCCAGCGCCTCCTAGTTGGCCTCTCTTCTGCCATGTGCTACTCTGCTTTAGTGAC  
 CAAAACCAATCGTATTGCACGCATCCTGGCTGGCAGCAAGAAGAAGATCTGCACCCGGAAGCCAGATTC  
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 TGATCATCATGGAGCCTCCCATGCCATTTTGTCTACCCGAGTATCAAGGAAGTCTACCTTATCTGCAA  
 TACCAGCAACCTGGGTGTAGTGGCCCTGTGGTTACAATGGACTCCTCATCATGAGCTGTACCTACTAT  
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 CGCGGTGAGCCTCAGTGTGACGGTGGCCCTGGGGTGCATGTTTACTCCGAAGATGTACATCATATTGCC  
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 AACTGCCGTGCCCTCCAACACCTTCTCAACATTTTCCGGAGAAAAGAAGCCGGGGCAGGGGATGCCAA  
 GAAGAGGCAGCCAGAATTCTCGCCAGCAGCCAGTGTCCGTCCGCACATGCCAGCTT

**ACGCGT**ACGGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200512 representing NM\_001114330  
 Red=Cloning site Green=Tags(s)

MVRLLLIFFPMIFLEMSILPRMPDRKVLLAGASSQRSVARMDGDVIGALFSVHHQPPAEKVPERKCGEI  
 REQYGIQRVEAMFHTLDKINADPVLLPNITLGSEIRDSCWHSSVALEQSIIEFIRDSLISIRDEKDLNRC  
 LPDQQLPGRGTRKPIAGVIGPGSSVAIQVQNLQLFDIPQIAYSATSIDLSDKTLKYFLRVVPSDTL  
 QARAMLDIVKRYNWTYVSAVHTEGNYGESGMDAFKELAAQEGLCIAHSDKIYSNAGEKSFDRLLRKLRR  
 LPKARVVVCFCEGMTVRGLLSAMRRLGVVGEFSLIGSDGWADRDEVIIEGYEVEANGGITIKLQSPVRSF  
 DDYFLKLRDLTNRNPFPEFWQHRFQCRLPGHLLNPNFKKVCCTGNESEENYVQDSKMGFVINAIYAM  
 AHGLQNMHHALCPGHVGLCDAMKPIDGRKLLDFLIKSSFVGVSGEEVWFDEKGDAPGRYDIMNLQYTEAN  
 RYDYVHVGTWHEGLNIDDYKIQMNKSGMVRVCSEPCCLKGQIKVIRKGEVSCCWICTACKENEFVQDEF  
 TCRACDLGWPNELTGCEPIPVRYLEWSDIESIIAIAFSLGILVTLFVTLIFVLYRDPVVKSSSREL  
 CYIILAGIFLGYVCPFTLIAKPTTSCYLQRLVGLSSAMCYSALVTKNRIARILAGSKKIKTRKPRF  
 MSAWAQVIIASILISVQLTLVVTIIMEPPMPILSYPSIKEVYLICNTSNLGVVAPVGYNGLLIMSTYY  
 AFKTRNVPANFNEAKYIAFTMYTTCIIWLAFAVPIYFGSNYKIITTCFAVSLSVTVALGCMFVTPKMYIIIA  
 KPERNVRSAFTTSDVVRMHVGDGKLPKRSNTFLNIFRRKKPGAGNAKKRQPEFSPSSQCPSAHAQL

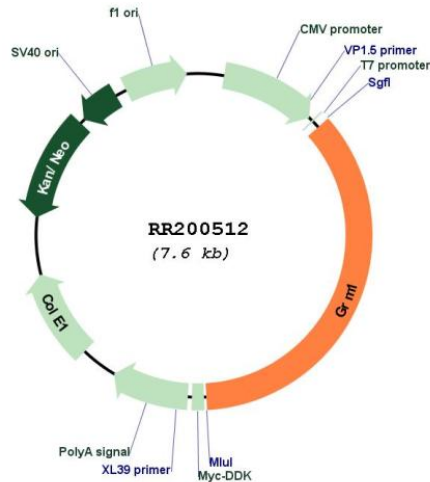
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001114330

**ORF Size:** 2718 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [NM\\_001114330.1](#), [NP\\_001107802.1](#)

**RefSeq Size:** 6905 bp

**RefSeq ORF:** 2721 bp

**Locus ID:** 24414

**UniProt ID:** [P23385](#)

**Cytogenetics:** 1p13

**MW:** 101.6 kDa

**Gene Summary:** may play a role in synaptic transmission; may modulate perception of pain in arthritis [RGD, Feb 2006]