

Product datasheet for **RN200513**

Grm1 (NM_017011) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grm1 (NM_017011) Rat Untagged Clone
Tag: Tag Free
Symbol: Grm1
Synonyms: Gprc1a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200513 representing NM_017011
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCGGCTCCTCTTGATTTTCTTCCAATGATCTTTTGGAGATGTCCATTTGCCAGGATGCCTG
 ACAGAAAAGTATTGCTGGCAGGTGCCTCGTCCCAGCGCTCCGTGGCGAGAATGGACGGAGATGTCATCAT
 CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAGAAGGTACCCGAAAGGAAGTGTGGGGAGATC
 AGGGAACAGTATGGTATCCAGAGGGTGGAGGCCATGTTCCACACGTTGGATAAGATTAACCGGACCCGG
 TGCTCCTGCCAACATCACTCTGGGCAGTGAGATCCGGGACTCCTGCTGGCACTTTCAGTGGCTCTCGA
 ACAGAGCATCGAATTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGGCTGAACCGATGC
 CTGCTGATGGCCAGACCCTGCCCCCTGGCAGGACTAAGAAGCCTATTGCTGGAGTATCGGCCCTGGCT
 CCAGCTCTGTGGCCATCAAGTCCAGAATCTTCTCCAGCTGTTTCGACATCCCACAGATCGCTATTCTGC
 CACAAGCATAGACCTGAGTGACAAAACCTTTGTACAAAATACTTCTGAGGGTGGTCCCTTCTGACACTTTG
 CAGGCAAGGGCGATGCTCGACATAGTCAAGCGTTACAACCTGGACCTATGTCTCAGCAGTCCACACAGAAG
 GGAATTACGGCGAGAGTGAATGGATGCTTTCAAAGAACCTGGCTGCCAGGAAGGCCCTCGCATCGCACA
 CTCGGACAAAATCTACAGCAATGCTGGCGAGAAGAGCTTTGACCCGCTCCTGCGTAAACTCCGGGAGCGG
 CTTCCCAAGGCCAGGTTGTGGTCTGCTTCTGCGAGGGCATGACAGTGCAGGGGCTTACTGAGTGCCATGC
 GCCGCTGGGCGTCTGGGCGAGTTCTCACTCATTGGAAGTATGGATGGGCAGACAGAGATGAAGTCAT
 CGAAGGCTATGAGGTGGAAGCCAACGGAGGGATCACAATAAAGCTTCAGTCTCCAGAGGTCAGGTCAATT
 GATGACTACTTCTGAAGCTGAGGCTGGACACCAACACAAGGAATCCTTGGTTCCTGAGTTCTGGCAAC
 ATCGTCCAGTGTGCCTACCTGGACACCTCTTGAAAACCCCAACTTTAAGAAAGTGTGCACAGGAAA
 TGAAGCTTGAAGAAAATATGTCCAGGACAGCAAAATGGGATTTGTCATCAATGCCATCTATGCCATG
 GCACATGGGCTGCAGAACATGCACCATGCTCTGTGTCGGCCATGTGGGCTGTGTGATGCTATGAAAC
 CCATTGATGGCAGGAAGCTCCTGGATTTCTCATCAAATCCTCTTTTGTGGAGTGTCTGGAGAGGAGGT
 GTGGTTTCGATGAGAAGGGGGATGCTCCCGGAAGGTATGACATTATGAATCTGCAGTACACAGAAGCTAAT
 CGCTATGACTATGTCCAGTGGGACCTGGCATGAAGGAGTGTGAATATTGATGATTACAAAATCCAGA



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TGAACAAAAGCGGAATGGTACGATCTGTGTGCAGTGAGCCTTGCTTAAAGGGTCAGATTAAGGTCATACG
 GAAAGGAGAAGTGAGCTGCTGCTGGATCTGCACGGCCTGCAAAGAGAATGAGTTTGTGCAGGACGAGTTC
 ACCTGCAGAGCCTGTGACCTGGGGTGGTGGCCCAACGCAGAGCTCACAGGCTGTGAGCCATTCTGTCC
 GTTATCTTGAGTGGAGTGACATAGAATCTATCATAGCCATCGCCTTTTCTTGCCCTGGGCATCCTCGTGAC
 GCTGTTTGTACCCCTCATCTTCGTTCTGTACCGGGACACCCCGTGGTCAAATCCTCCAGTAGGGAGCTC
 TGCTATATCATTCTGGCTGGTATTTTCCCTCGGCTATGTGTGCCCTTTACCCCTCATCGCCAAACCTACTA
 CCACATCTGTACCTCCAGCGCCTCCTAGTTGGCCTCTCTTCTGCCATGTGCTACTCTGCTTTAGTGAC
 CAAAACCAATCGTATTGCACGCATCCTGGCTGGCAGCAAGAAGAAGATCTGCACCCGGAAGCCAGATTC
 ATGAGCGCTTGGGCCAAGTGATCATAGCCTCCATTCTGATTAGTGTACAGCTAACACTAGTGGTACCT
 TGATCATCATGGAGCCTCCCATGCCATTTTGTCTACCCGAGTATCAAGGAAGTCTACCTTATCTGCAA
 TACCAGCAACCTGGGTGTAGTGGCCCTGTGGTTACAATGGACTCCTCATCATGAGCTGTACCTACTAT
 GCCTTCAAGACCCGCAACGTGCCGGCAACTTCAATGAGGCTAAATACATCGCCTTACCATGTACACTA
 CCTGCATCATCTGGCTGGCTTTCGTTCCATTTACTTTGGGAGCAACTACAAGATCATCACTACCTGCTT
 CGCGGTGAGCCTCAGTGTGACGGTGGCCCTGGGGTGCATGTTTACTCCGAAGATGTACATCATATTGCC
 AAACCTGAGAGGAACGTCCGAGTGCCTTACGACCTCTGATGTTGTCCGCATGCACGTCCGTGATGGCA
 AACTGCCGTGCCCTCCAACACCTTCTCAACATTTTCCGGAGAAAGAAGCCCGGGCAGGGAATGCCAA
 TTCTAACGGCAAGTCTGTGTCATGGTCTGAACCAGGTGGAAGACAGGCGCCCAAGGGACAGCACGTGTGG
 CAGCGCCTCTCTGTGCACGTGAAGACCAACGAGACGGCCTGTAACCAAACAGCCGTAATCAAACCCCTCA
 CTAAGAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCCAGATGCCAGCACCAAGACCCCTTTACAATGT
 GGAAGAAGAGGACAATACCCCTTCTGCTCACTTCAGCCCTCCAGCAGCCCTTCTATGGTGGTGCACCGA
 CGCGGGCCACCCGTGGCCACCACACCCTTCCACCCCATCTGACCCGAGAAGAGACCCCTTGTCC
 TGGCTGATCCGTATCCCAAGGGCTTGCCTCCTCTCTCCCGCAGCAGCAGCCACAGCAGCCGCCCCC
 TCAGCAGCCCCCGCAGCAGCCCAAGTCCCTGATGGACCAGTGCAGGGGTAGTACCAACTTCGTTTCG
 GGGATTCCAGATTTCCATGCGGTGCTGGCAGGCCCGGGGACACCAGGAAACAGCCTGCGCTCTCTGTACC
 CGCCCCCGCCTCCGCGCAACACCTGCAGATGCTGCCCTGCACCTGAGCACCTTCCAGGAGGAGTCCAT
 CTCCCCTCTGGGGAGGACATCGATGATGACAGTGAAGATTCAAGCTCCTGCAGGAGTTCGTGTACGAG
 CGCGAAGGGAACACCGAAGAAGATGAATTGGAAGAGGAGGAGGACCTGCCACAGCCAGCAAGCTGACCC
 CTGAGGATTCTCCTGCCCTGACGCCTCCTTCTCCTTTCCGAGATTCGTTGGCCTCTGGCAGCTCAGTGCC
 CAGTTCCCCCGTATCTGAGTCGGTCTCTGCACCCCTCCAATGTAACCTACGCCTCTGTCATTCTGAGG
 GACTACAAGCAAAGCTCTTCCACCCTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_017011

Insert Size:

3600 bp

OTI Disclaimer:

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).

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_017011.1](#), [NP_058707.1](#)

RefSeq Size: 6820 bp

RefSeq ORF: 3600 bp

Locus ID: 24414

UniProt ID: [P23385](#)

Cytogenetics: 1p13

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

Transcript Variant: This variant (1) encodes the longer isoform (alpha).