

Product datasheet for MC223910

Grm1 (NM_016976) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm1 (NM_016976) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm1
Synonyms:	4930455H15Rik; ENSMUSG00000075319; Gm10828; Gprc1a; mGluR1; nmf373; rcw; wobI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223910 representing NM_016976 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGGCTCCTCTTGATTTCTTCCCAATGATCTTTTTGGAGATGTCCATTTGCCAGGATGCCTG
ACAGAAAAGTACTGCTGGCAGGTGCCTCGTCCCAGCGCTCTGTGGCGAGAATGGACGGAGATGTCATCAT
CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAAAAGGTACCGGAAAGGAAGTGTGGGAGATC
AGAGAACAGTATGGTATCCAGAGAGTGGAGGCCATGTTCCACACATTAGATAAGATTAATCGGACCCGG
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CGCTATGACTATGTCCATGTGGGAACCTGGCATGAAGGTGTGCTGAATATCGATGATTACAAAATCCAGA
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CGTGAAGGGAACCGGAGGAAGACGATCTGGAAGAGGAGGAGGACCTGCCTGCAGCCAGCAAGCTGACGC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1557_f06.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_016976

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_016976.2](#), [NP_058672.1](#)

RefSeq Size: 4211 bp

RefSeq ORF: 3600 bp

Locus ID: 14816

UniProt ID: [P97772](#)

Cytogenetics: 10 A1

Gene Summary: G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system. May participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (alpha). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.