

## Product datasheet for **MC222341**

### Grm2 (NM\_001160353) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grm2 (NM_001160353) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm2
Synonyms:	4930441L02Rik; Gprc1b; mGluR2; mGluR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry2 (PS100063)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222341 representing NM_001160353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/jc1375_a04.zip">https://cdn.origene.com/chromatograms/jc1375_a04.zip</a>
Restriction Sites:	Sgfl-MluI
ACCN:	NM_001160353
Insert Size:	2619 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001160353.1](#), [NP\\_001153825.1](#)

**RefSeq Size:** 3338 bp

**RefSeq ORF:** 2619 bp

**Locus ID:** 108068

**UniProt ID:** [Q14BI2](#)

**Cytogenetics:** 9 F1

**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 inhibits adenylate cyclase activity. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.[UniProtKB/Swiss-Prot Function]