

Product datasheet for **MC222604**

Grm7 (NM_177328) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm7 (NM_177328) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm7
Synonyms:	6330570A01Rik; BB176677; C030018L03; E130018M02Rik; Gpr1g; Gprc1g; mGluR7; SMN2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222604 representing NM_177328
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTCCAGCTGGGAAGCTGCTCCGCGTCTGACTTTGATGAAGTTCCCCTGCTGCGTGTGGAGGTGC
 TCCTGTGCGTGTGGCGCGCGCGCGGCCAGGAGATGTACGCCCGCACTCGATCCGGATCGAGGG
 GGACGTACCCCTTGGGGGCTGTTCCAGTGCACGCCAAGGGTCCCAGCGGAGTGCCTGCGGCGACATC
 AAGAGGGAGAATGGGATCCACAGGCTGGAAGCTATGCTTTATGCTCTCGACCAGATCAACAGCGATCCCA
 ACCTGCTGCCAACGTAACGTTAGGCGCGGGATCCTGGACACTTGTCCAGGGACACTTATGCGCTCGA
 ACAGTCGCTCACTTTCTCCAGGCGCTTATCCAGAAGGACACCTCCGACGTGCGTTGCACCAACGGAGAG
 CCCCCGGTTTTTCGTAAGCCAGAGAAAGTAGTTGGAGTGATTGGGGCTTCGGGGAGCTCCGTCTCCATCA
 TGGTAGCCAACATCTTGAGGCTTTCCAGATACCTCAGATTAGTTATGCATCCACGGCTCCTGAACCTCAG
 TGATGACCGTTCGCTATGACTTCTCTCTCGCGTGGTCCCACCTGATTCCCTCCAAGCCAAAGCTATGGTA
 GACATTGTAAAGGCATTGGGCTGGAATTATGTATCTACTCTTGATCTGAAGGAAGCTATGGAGAGAAAAG
 GTGTGGAGTCCTTACACAAAATTTCAAAGAAGCAGGTGGACTCTGCATTGCCAGTCCGTGAGAATTCC
 CCAAGAACGCAAAGACAGGACCATTGACTTTGATAGAATTATCAAACAGCTCTTGACACCCCCAACTCC
 AGGGCTGTGCGTATTTTTGCCAACGATGAGGATATAAAGCAGATCCTTGACGAGCCAAAAGAGCTGACC
 AAGTAGGACATTTTCTCTGGGTTGGGTGAGACAGCTGGGGTCCAAAATCAACCCACTGCATCAGCATGA
 AGATATTGCAGAAGGAGCCATCACCATCCAACCTAAGAGAGCGACTGTGGAAGGATTTGATGCTTACTTC
 ACATCCCGGACACTTGAAAACAACAGGAGAAATGTATGGTTTGCCGAATACTGGGAAGAAAATTTCAACT
 GCAAGTTGACAATTAGTGGATCCAAAAAGAAGACACGGATCGAAATGCACAGGACAGGAGCGAATTGG
 AAAAGACTCTAATTATGAGCAGGAGGGTAAAGTACAGTTTGTGATCGATGCTGTCTATGCCATGGCACAT
 GCCCTTACATCACATGAATAAGGATCTGTGTGCTGACTACCGGGGAGTGTGCCCAGAAATGGAGCAAGCAG
 GGGGCAAGAAGTTGTTGAAGTATATCCGCAATGTTAACTTCAATGGTAGTGCTGGAACCCAGTGATGTT
 TAACAAAATGGTGATGCTCCAGGACGATGACATCTCCAGTACCAGACAACAACACTACCAATCCT
 GGTTATCGTCTCATTGGGACGTGGACAGATGAACTGCAGCTCAATATAGAGGACATGCAGTGGGGCAAG
 GAGTCCGGGAGATCCCACCCTCTGTGTGCACATGCCATGCAAGCCTGGGAGAGGAAGAAGACACAGAA
 GGGAACCCCTTGCTGCTGGACTTGTGAGCCCTGTGATGGATACCAGTATCAATTTGATGAGATGACATGT
 CAGCATTGTCCTATGACCAGAGGCCAATGAGAACCAGACTGGCTGTCAGAACATCCCAATCATCAAAC
 TGGAGTGGCACTCCCCCTGGGCTGTAATTCCTGTCTTCTGGCAATGTTGGGGATCATTGCCACCATCTT
 TGTGATGGCAACCTTCATCCGCTACAATGATACCCCATCGTCAGGGCATCTGGGCGGAACTCAGCTAT
 GTTTTATTGACAGGCATCTTCTCTGCTATATCATCACCTTCTAATGATTGCCAAGCCAGATGTGGCAG
 TGTGTTCTTCCGACGTGCTTCTTGGGGTTGGGTATGTGATTAAGTTATGCAGCCCTTTTAAACAAAAC
 CAATCGGATTTATCGCATATTCGAGCAGGGCAAGAAATCGGTGACAGCTCCCAGACTCATAAGCCCAACA
 TCACAACGGCAATTACCTCCAGTTTAAATCGGTGCACTTCTAGGTGTCTTTATTTGGTTTGGGGTGT
 ACCCACCAACATCATCAGACTACGATGAGCATAAGACAATGAACCCAGAACAAGCCAGGGGAGTTCT
 CAAATGTGACATCACAGACCTTCAGATCATTTGTTCTTTGGGATATAGCATTCTTCTCATGGTCACATGT
 ACTGTGTATGCCATCAAGACTCGGGGTGTACCAGAGAATTTTAAATGAAGCCAAGCCATTGGATTACTA
 TGTACACGACTTGTATCGTATGGCTTGCCTTCATCCCAATATTTTTGGCACAGCGCAATCAGCAGAAAA
 GCTCTACATACAAACCACCAGCTTACAATCTCCATGAACCTAAGTGCATCAGTGGCGCTGGGGATGCTA
 TACATGCCGAAAGTGATCATCATTTTCCACCCTGAACCTCAATGTCCAGAAACGGAAGCGAAGCTTCA
 AGGCCGTAGTACAGCAGCCACCATGTCATCGAGGCTGTCACACAAACCCAGTGCAGGCCCAATGGTGA
 GGCAAAGACAGAACTTTGTGAAAATGTAGACCCAAACAGCCCTGCTGCAAAAAAGAAGTATGTCAGTTAT
 AATAACCTGGTTATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_177328
Insert Size:	2748 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_177328.3 , NP_796302.2
RefSeq Size:	4181 bp
RefSeq ORF:	2748 bp
Locus ID:	108073
UniProt ID:	Q68ED2
Cytogenetics:	6 E3
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, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity (By similarity).[UniProtKB/Swiss-Prot Function]