

Product datasheet for **MC229165**

Grm4 (NM_001291045) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm4 (NM_001291045) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm4
Synonyms:	Gprc1d; mGluR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229165 representing NM_001291045
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCGGGAAGGAGGCTGGGCTGGTGGTGGGCCCGGTGCCCTCTGCCTACTCCTCAGCCTTTATG
GCTCCTGGGTGCCTTCATCCCTAGGAAAAGCCCAAGGGTCACCCACATGAACTCTATCCGTATCGATGG
AGACATCACCTGGGAGGCTGTTTCCCGTCCACGGTCCGCGCTCCGAGGGCAAGCCTGCGGCGAGTTG
AAGAAGGAGAAAGGTATCCACCGGCTGGAGGCCATGCTCTTTGCCCTGGACCGCATCAACAACGACCCGG
ACCTACTGCCAACATCACGTTGGGCGCCCGCATTCTGGACACCTGCTCAAGGGATACCCACGCCCTGGA
GCAGTCCCTGACCTTTGTGACGGCGCTCATCGAGAAGGACGGCACGGAGGTCGCTGCGGAGCGGGGGC
CCACCCATCATCACAAGCCTGAACGAGTGGTGGGTGTCATCGGAGCTTCGGGGAGCTCCGTCTCGATCA
TGTTGGCCAAACATCCTCCGCTCTTCAAGATCCCCAGATCAGCTACGCCTCCACGGCTCCCGACTTGAG
TGATAACAGCCGCTATGACTTCTTCTCCGGGTGTCGCCCTCGGACACATACCAGGCCAGGCCATGGTG
GACATCGTCCGGGCCCTCAAGTGAAGTATGTGTCCACGCTGGCCTCAGAGGGTAGCTACGGCGAGAGCG
GCGTGGAGGCCTTATCCAGAAGTCCCAGAGAACGGAGGCGTGTGCATTGCCAGTCGGTGAAGATTCC
ACGGGAACCCAAGACCGGGGAGTTTGACAAGATCATCAAACGCCTTCTGGAAACGTCCAATGCCAGAGCC
ATCATCATCTTTGCCAACGAGGATGATATCAGGAGGGTGTGGAGGCAGCGCGCAGGGCCAAACCAGACCG
GCCACTCTTTTGGATGGGTCTGATAGCTGGGGCTCCAAGAGCGCCCCGTGCTGCGCCTTGAGGAAGT
GGCTGAAGGTGCAGTCAACATCTTCCCAAGAGGACGCTGTGCGAGGGTTTGACCGATACTTCTCCAGC
CGCAGCTTGACAACAACAGGCGCAACATCTGGTTTGTGAGTTCTGGGAGGACAACCTCCATTGCAAGT
TGAGCCCGCCAGCGCTCAAGAAGGGAAGCCACATCAAGAAGTGCACCAACCGAGAGCGCATCGGGCAGGA
CTCGGCCCTACGAACAGGAGGGGAAGGTGCAATTTGTGATCGACGCGGTGTACGCCATGGGCCATGCTCTG
CACGCCATGCATCGTGACCTGTGTCCGCGCCGCTAGGACTCTGCCCTCGAATGGACCCTGTGGATGGCA
CCCAGTCTTAAGTACATCAGAAACGTCAACTTCTCAGGCATCGCCGGGAACCCGGTGACCTTCAACGA
GAACGGAGACGCGCCAGGGCGTTATGACATCTACCAGTACCAACGTGCAACGGCTCGGCTGAGTACAAG
GTCATCGGCTCATGGACAGACACTTGCACCTCAGAATAGAGCGGATGCAGTGGCCAGGGAGTGGCCAGC
AGCTGCCACGCTCCATCTGCAGCTGCCCTGCCAGCCAGGCGAGCGGAAGAAGACGGTGAAGGGCATGGC
TTGCTGCTGGCACTGCGAGCCCTGCACGGGTACCAGTACCAGGTGACCCTACACCTGTAAGACCTGC
CCCTATGACATGGGCCCACGGAGAACCAGCAGAGCTGCCAGCCATACCCATTGTAAGTTGGAGTGGG
ACTCACCTGGGCTGTGCTGCCCTCTTCTGGCTGTGGTGGGCATTGCTGCCACGCTGTTGCTGGTGGT
CACTTTTGTGCGCTACAACGACACTCCGATCGTCAAGGCCTCGGGCCGGGAGCTGAGCTACGTCCTGCTG
GCGGGCATCTTTCTGTGATGCCACCCTTCTCATGATCGCAGAGCCTGACCTGGGGACCTGTTTAC
TCCGCCGATCTTCTGGGGCTTGCAATGAGCATCAGTACGCGGCCCTGCTGACCAAGACCAACCCGAT
CTACCGCATCTTTGAGCAGGGCAAGCGGTGGTTCAGCGCCACGGTTCATCAGCCCCGCTCGCAGCTG
GCCATCACCTTCGTCCTCATCTCGCTGCAGTGGCTGGCATCTGCGTGTGGTTCGTTGGTGGACCCCTCC
ACTCGTGGTGGACTTCCAGGACCAGCGGACACTTGACCCCGCTTCGCCGGGGTGTGCTCAAGTGTGA
CATCTCGGACCTGCTCATCTGCCTCTGGCTACAGCATGCTGATGGTCACTGACTGTGATGATGATG
GCCATCAAGACTCGAGGGTGCCTGAGACCTTCAATGAGGCCAAGCCATCGGCTTACCATGTACACCA
CCTGCATCGTCTGGCTGCTTATCCCATCTTTTTTGGCACCTCGCAGTGGCTGACAAGCTGTACAT
CCAGACAACCACACTGACGGTCTCTGTGAGTCTGAGCGCTTCAAGTGTCCCTGGGGATGCTTACATGCC
AAAGTCTACATCATCTTCCACCCGGAGCAGAACGTGCCCAAGCGCAAGCGCAGCCTCAAAGCCGTTG
TCACCGCCGCCACCATGTCCAACAAGTTACACAGAAGGGCAACTTACGGCTAATGGGGAAGCCAAGTC
AGAGCTGTGTGAGAACCTGGAGGCCAGCACTGGCCACCAACAGACCTACGTCACCTTACACCAACCAT
GCAAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3099_f02.zip

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001291045
Insert Size:	2739 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001291045.1</u> , <u>NP_001277974.1</u>
RefSeq Size:	3987 bp
RefSeq ORF:	2739 bp
Locus ID:	268934
Cytogenetics:	17 A3.3
Gene Summary:	<p>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 (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>