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Product datasheet for MC222503

Grm1 (NM_001114333) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm1 (NM_001114333) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grm1
Synonyms:	4930455H15Rik; ENSMUSG00000075319; Gm10828; Gprc1a; mGluR1; nmf373; rcw; wobl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC222503 representing NM_001114333
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCGGCTCCTCTTGATTTTCTTCCCAATGATCTTTTTGGAGATGTCCATTTTGCCCAGGATGCCTG
ACAGAAAAGTACTGCTGGCAGGTGCCTCGTCCCAGCGCTCTGTGGCGAGAATGGACGGAGATGTCATCAT
CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAAAAGGTACCGGAAAGGAAGTGTGGGGAGATC
AGAGAACAGTATGGTATCCAGAGAGTGGAGGCCATGTTCCACACATTAGATAAGATTAATGCGGACCCGG
TGCTCCTGCCCAACATCACTCTGGGCAGTGAGATCCGGGACTCCTGCTGGCACTCTTCTGTGGCTCTGGA
ACAGAGCATTGAGTTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGACTGAACCGCTGC
CTGCCTGATGGCCAGACCCTACCCCCAGGCAGGACTAAGAAGCCTATTGCTGGAGTGATCGGCCCTGGCT
CCAGCTCTGTGGCCATTCAAGTCCAGAATCTTCTGCAGCTGTTCGACATCCCACAAATCGCCTATTCTGC
CACGAGCATAGACCTGAGCGACAAAACTTTGTACAAATACTTCCTGAGGGTGGTCCCTTCTGACACTTTG
CAGGCAAGGGCGATGCTTGATATCGTCAAGCGGTACAACTGGACCTATGTCTCTGCAGTCCACACAGAAG
GGAATTACGGCGAGAGTGGAATGGATGCTTTCAAAGAGTTGGCTGCCCAGGAAGGACTCTGCATCGCACA
CTCGGACAAAATCTACAGCAATGCTGGCGAGAAGAGCTTTGATCGGCTTCTGCGCAAGCTCCGAGAGCGG
CTTCCCAAGGCCAGGGTTGTGGTCTGCTTCTGCGAGGGCATGACAGTGCGGGGGTTACTGAGTGCCATGC
GCCGCCTTGGCGTCGTGGGAGAGTTCTCACTCATTGGAAGTGATGGATGGGCAGACAGAGATGAAGTCAT
CGAAGGCTATGAGGTGGAAGCCAATGGGGGAATCACAATAAAGCTGCAGTCTCCAGAGGTCAGGTCGTTT
GATGACTACTTTCTGAAGCTGAGGCTGGACACCAACACGAGGAATCCTTGGTTCCCTGAGTTCTGGCAAC
ATCGCTTCCAGTGTCGCCTACCTGGACACCTCTTGGAAAACCCCAACTTTAAAAAAGTCTGCACAGGAAA
TGAAAGCTTGGAAGAAAATTATGTCCAGGACAGCAAAATGGGATTTGTCATCAACGCCATCTATGCCATG
GCACACGGCCTACAGAACATGCACCATGCTCTATGTCCTGGCTACGTGGGCCTTTGTGATGCCATGAAGC
CCATTGACGGCAGGAAGCTCCTGGATTTCCTCATCAAATCCTCTTTTGTTGGAGTGTCTGGAGAGGAGGT
CTGGTTCGATGAGAAGGGGGATGCACCTGGAAGGTATGACATTATGAATCTGCAGTACACAGAGGCTAAT
CGCTATGACTATGTCCATGTGGGAACCTGGCATGAAGGTGTGCTGAATATCGATGATTACAAAATCCAGA
TGAACAAAAGCGGAATGGTACGATCTGTGTGCAGCGAGCCTTGCTTAAAGGGTCAGATTAAGGTCATACG
GAAAGGGGAAGTGAGCTGCTGCTGGATCTGCACAGCCTGCAAAGAGAATGAGTTTGTGCAAGATGAGTTT
ACCTGCAGAGCCTGTGACCTGGGGTGGTGGCCCAATGCAGAGCTCACAGGCTGTGAGCCCATTACTATCC
GTTACCTCGAGTGGAGTGACATAGAATCCATCATAGCCATCGCCTTTTCTTGCCTGGGCATCCTCGTGAC
GCTATTTGTCACCCTCATCTTTGTGCTGTACCGGGACACACCTGTGGTCAAATCCTCCAGTAGAGAGCTC
TGCTATATCATTCTGGCTGGTATTTTCCTCGGCTACGTATGCCCTTTCACCCTCATCGCCAAACCTACTA
CCACATCCTGCTACCTCCAGCGCCTCCTAGTTGGCCTCTCTTCTGCCATGTGCTACTCTGCTCTTGTGAC
CAAAACCAATCGTATTGCACGCATCCTGGCTGGCAGCAAGAAGAAGATCTGTACCCGGAAGCCCAGGTTC
ATGAGCGCTTGGGCCCAAGTGATCATAGCCTCCATTCTGATTAGTGTACAGCTGACACTAGTGGTGACCT
TGATCATCATGGAGCCTCCCATGCCCATTTTGTCCTACCCGAGCATCAAGGAAGTCTATCTTATCTGCAA
TACCAGCAACCTGGGTGTAGTGGCACCTGTGGGTTACAACGGACTTCTCATCATGAGCTGTACCTACTAT
GCCTTCAAGACCCGCAACGTGCCGGCCAATTTCAATGAGGCTAAATACATCGCCTTCACTATGTACACCA
CCTGCATCATCTGGCTGGCTTTTGTTCCCATTTACTTTGGGAGCAACTACAAGATTATCACTACCTGCTT
CGCAGTGAGCCTCAGTGTGACGGTGGCCCTGGGCTGCATGTTCACTCCCAAGATGTACATCATTATTGCC
AAACCCGAGAGGAATGTCCGCAGTGCCTTCACCACCTCTGATGTAGTGCGCATGCACGTCGGTGACGGCA
AGCTGCCATGCCGCTCCAACACCTTCCTCAACATTTTCCGGAGAAAGAAGCCTGGGGCAGGGAACGCCAA
GAAGAGGCAGCCAGAATTCTCGCCCAGCAGCCAGTGTCCGTCGGCACATGTGCAGCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001114333

Insert Size:	2721 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_001114333.2, NP_001107805.1
RefSeq Size:	7007 bp
RefSeq ORF:	2721 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 (2) encodes the shorter isoform (beta). Isoform beta has a different subcellular distribution than isoform alpha and may be functionally distinct due to differential G-protein coupling of its novel C-terminal sequence. 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.