

Product datasheet for **MC219389**

Mbd1 (NM_013594) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mbd1 (NM_013594) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mbd1
Synonyms:	Cxxc3; PCM1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219389 representing NM_013594
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGAGTCTGGCAGGACTGCCAGCCTGGGCCCTGGCTGGAACGCCGAGAGTCTTTGCAAAGT
 CAGGGGCCTCGTTTGGACGCTCAGACATCTATTACCAGAGCCCCACAGGAGAAAAGATCCGAAGCAAAGT
 TGAGCTGACTCGGTACTTGGGCCCTGCATGTGATCTTACCCTGTTTGACTTCAGACAAGGCACCTTATGC
 CATCCCATTCCCAAGACTCATCCCTTGGCTGTCCCCAGCAAGAAGAAAAAGAGCCTTCTAAACCAGCCA
 AGACTAAGAAACAGCAGGTTGGGCTGCAGCAAGTGAAGTTCAGGAGAGAGACTCCACAGGGGAATAAA
 GGCCCTACTGCCACAGCTCTAGCTTCACTATCTGTGTCTGCATCTGCGTCTTCGCTGCATCTGCATCT
 GCGTCTTCGTCTGCATCTGCATCTGCATCTGCGTCTTACATGCACCTGTGTGCTGTGAGAATTGTGAA
 TCCACTTTTCATGGGATGGTGTCAAAGGCAGAGACTTAAGACGTTGTGCAAAGATTGTCGAGCACAGAG
 AATCGCCTTCAACCGCAACAGAGAATGTTTAAGCGAGTCGGCTGTGGGACTGTGCAGCTTGCCTGGTG
 AAAGAGGACTGTGGGGTGTGCTCCACCTGTGCGCTGCAACTGCCAGTGTGTGGCCTCAGGGCTTACT
 GCAAGTGTGAGCGGAGACGATGCCTGCGGATTATGGAGAAGAGCCGAGGGTGTGGCGTGTGTCGGGGTTG
 TCAGACCCAAGAGGACTGTGGCCATTGCTGCATCTGTCTTCGCTCTCCCGCCCTGGTCTCAAGCGCCAG
 TGGAGGTGTTTGAACGGCGCTGTTTTTGGGGTAAACGTATTCTAGTAAGAGAGGCTCGAAGGTAGCGT
 CTCAGCGTCACTCCCAAGCCCGCCACTTCTCCACATCTGCATCACAGTACACAGAGCCACAGAGCT
 GCACATCAGCGACATAGCACCCACATCACCTGCTGAGTTCATCTATTACTGTGTAGACGAGGACGAGGAC
 GAGCTAAAGCGGCTGCTGCCAGTGTGGTCAAGGCTGAGGGTGGGGAGGGAGCAGGATTGCGTCCATATCAGA
 CCCATCAGACCCATCAAAGAGGCCTGCTTCTGCTCGACAACCTCAACTGAGCTCTCCCTTAAAGGCCCC
 TTGGGCTGTGGTACAGCACAGCACAGGCTGCTTCCGAGATTCAAGAAAGCAGCAAGCAGGTAGAGGCTCT
 GTACTGCCCCAGCCTGACACAGACTTTGTGTTTTTACAAGAGGGTACCAGCAGTGCATGCAGATGCCTG
 GCACTGCTGCAGCTTGCACAGAAGTCCCAGTACAGGCGGCCAGTGTCTGCCCCGAGCTGGGTTGTGGC
 CTTACCCAGGTGAAGCAAGAGACGGCAGATGCTCCAGAGGAGTGGACAGCAGTACGACCTTCTGACT
 TCCTCCACGCTGCAGTCTGGCTTCCCTAGCAAGGCTGCAGATCCAGACCTTTCACCTGTGAAACAAGAGC
 CCCCTGGCCCTGAAGAGGATGGAGAAGAGAAAAAGATGATGTCTCTGAAACAACCCAGCAGAGGAGAT
 AGGAGGGGTTGGCAGCCAGTGTACGAGGATTTTCAGCCTGGTGGAAACCCGCTCCGAGATGCAGAA
 GCCTGTTGCCAAGGCTACATAAAGTGTAGCAGTAAATGAAAAAGAGTATTTTACTGAGCTGCAGTTGA
 AAGAAGAAGTTTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013594

Insert Size: 1767 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_013594.2](#), [NP_038622.2](#)

RefSeq Size: 2672 bp

RefSeq ORF: 1767 bp

Locus ID: 17190

UniProt ID: [Q9Z2E2](#)

Cytogenetics: 18 50.7 cM

Gene Summary: Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting AFT7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 can also repress transcription from unmethylated promoters.[UniProtKB/Swiss-Prot Function]