

Product datasheet for **MC204466**

Mbd2 (NM_010773) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mbd2 (NM_010773) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mbd2
Synonyms:	MBD2a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046607
 GTGCGCGCCCGCTCTATGATGCTTGCGCGCGTCCCCGCGCGCCGCTCTGCGGGCGGGGCGGGTCTCCGG
 GATTCCAAGGGCTCGGTTACGGAAGAAGCGCAGAGCCGGCTGGGGAGGGGGCTGGATGCGCGCGCACCCG
 GGGGGAGGCCGCTGCTGCCCGGAGCAGGAGGAGGGGAGAGCGCGGGCGGGCGGCAGCGCGCTGGCGGGC
 ACTCCGCCATAGAGCAGGGGGCCAGGGCAGCGCGCTCGTCCCGTCCCGGTGAGCGGCTGCGCAGGGA
 AGGCGCTCGGGGCGGGCCGCTGGCCGGGGCGGTGGAAGCAGGCGGCCCGGGGCGGGCGGTCTGTGGC
 CGTGGCCGTGGCCGTGGCCGGGGTGGGGCCGTGGCCGGGGCGGGGCGGGGCGGGGCGGGGCGGTCCCCAGA
 GTGGCGGCAGCGCCTTGCGGGCGACGGCGGCGCGGGCGGGCGGTGCGGCGTCGGCAGCGGTGGCGG
 CGTCCGCCCCCGCGGGATCCTGTCCCTTCCCGTGGGGAGCTCGGGGCGGGGCCAGGGACCCCGG
 GCCACGGAGAGCGGAAGAGGATGGACTGCCCGGCCCTCCCCCGGATGGAAGAAGGAGGAAGTATCC
 GAAATCAGGGCTCAGTGTGGCAAGAGCGATGTCTACTACTTCAAGTCCAAGTGGTAAGAAGTTCAGAAG
 TAAACCTCAGTGGCAAGATACCTGGGAAATGCTGTTGACCTTAGCAGTTTTGACTTCAGGACCGGCAAG
 ATGATGCCTAGTAAATTACAGAAGAACAAGCAGAGACTCCGGAATGACCCCTCAATCAGAACAAGGTA
 AACAGACCTGAACACAACATTGCAATTAGACAACTGCATCAATTTTCAAGCAACCAGTAACCAAATT
 CACGAACCACCCGAGCAATAAGGTGAAGTCAGACCCCGCGGATGAATGAACAACCACGTCAGCTTTTC
 TGGGAGAAGAGGCTACAAGGACTTAGCGCATCAGATGTAAACAGAACAAATTATAAAAACCATGGAGCTAC
 CTAAGGTCTTCAAGGAGTCGGTCCAGGTAGCAATGACGAGACCCCTTCTGTCTGTGGCCAGTGTCTT
 ACACACAAGCTCTGCGCCATCACAGGACAAGTCTCTGCTGCCGTGGAAGAAGCCCTGCTGTTGGCTT
 AACACATCTCAACCCCTCTGCAAGCTTTCATTGTTACAGATGAAGACATTAGGAAACAGGAAGAGCGAG
 TCCAACAAGTACGCAAGAACTGGAGGAGGCACTGATGGCCGACATCCTGTCCCGGGCTGCGGACACGGA
 GGAAGTAGACATTGACATGGACAGTGGAGATGAGGCGTAAGAATATGATCAGGTAACCTTCGACTGACCT
 TCCCAAGAGCAAATTGCTAGAAACAGAATTAACAATTTCCACTGGGTTTCGCCTGTAAGAAAAAGTGT
 ACCTGAGCACATAGCTTTTTAATAGCACTAACCAATGCCTTTTTAGATGTATTTTTGATATATATCTA
 TTATTCCAAATGATGTTTATTTGAATCCTAGGACTTAAATGAGTCTTTTATAATAGCAAGCAGGGCCC
 TCCGGTGCAGTGCAGCTTTGAGGCCAGGTGCAGTCTACTGAAAGGTAGCACTTACGTGAATATTTGT
 TTCCCCACAGTTTTAATAAACAGATCAGGAGTACCAATAAGTTTCCCAATTAAGATTATTATACT
 TCACTGTATATAAACAGATTTTTATACTTTATTGAAAGAAGATACCTGTACATTCTCCATCATCACTGT
 AAAGACAAATAAATGACTATATTCACAGACAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010773

Insert Size: 1245 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: [BC046607](#), [AAH46607](#)

RefSeq Size: 1865 bp

RefSeq ORF: 1245 bp

Locus ID: 17191

UniProt ID: [Q9Z2E1](#)

Cytogenetics: 18 44.54 cM

Gene Summary: Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binds hemimethylated DNA as well. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing. Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (By similarity). May enhance the activation of some unmethylated cAMP-responsive promoters (By similarity). Selectively represses transcription activity of methylated rRNA promoters.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).