

Product datasheet for **SC124480**

MBD1 (NM_015844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_015844) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD1
Synonyms:	CXXC3; PCM1; RFT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_015844 edited
 TGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGG
 GGGAGGTGCAGGAGGGACCCTCGCCATGGGTCCACGGGCTAGAGTGGCGGAAGATACCG
 GCCTGGTGCCAACTGGCTACTGCTGCTCCTGTGGCCTCCATGGCTGAGGACTGGCTGG
 ACTGCCCGGCCCTGGCCCTGGCTGGAAGCGCCGCGAAGTCTTTCGCAAGTCAGGGGCCA
 CCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAAG
 TTGAGCTGACTCGATAACCTGGGCCCTGCGTGTGATCTCACCCCTTCGACTTCAAACAAG
 GCATCTTGTGCTATCCAGCCCCAAGGCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAA
 AGAAGCCTTCAAGGCCAGCCAAGACTCGAAACGTCAGGTTGGACCCAGAGTGGTGAGG
 TCAGGAAGGAGGCCCGAGGGATGAGACCAAGGCTGACTGACACAGCCCCAGTTCAT
 TCCCTGCTCCTGGGTGCTGTGAGAACTGTGGAATCAGCTTCTCAGGGGATGGCACCCAAA
 GGCAGCGGCTCAAACGTTGTGCAAAGACTGTCGAGCACAGAGAATTGCCTTCAACCGGG
 AACAGAGAATGTTAAGCGTGTGGGCTGTGGGAGTGTGCAGCCTGCCAGGTAACAGAAG
 ACTGTGGGGCCTGCTCCACCTGCCTCCTGCAGCTGCCCATGATGTGGCATCGGGCTGT
 TCTGCAAGTGTGAACGGAGACGCTGCCTCCGATTGTGAAAGGAGCCGAGGGTGTGGAG
 TATGCCGGGGCTGTCAGACCCAAGAGGATTGTGGCCATTGCCCATCTGCCTTCGCCCTC
 CCCGCCCTGGTCTCAGGCGCCAGTGAAATGTGTCCAGCGACGTTGCCTACGGGGTAAAC
 ATGCCCGCCGAAGGGAGGCTGTGACTCCAAGATGGCTGCCAGGCGGCGCCCCGGAGCCC
 AGCCACTGCCTCCACCACCCCATCACAGTCCCGAGGCCACAGAGCCGACCCAGAG
 CCCTGGCCCCCTCGCCACCTGCCGAGTTCATCTATTACTGTGTAGACGAGGACGAGCTAA
 AGCGGCTGCTGCCAGTGTCTGGTCAGAGTCTGAGGATGGGGCAGGATCGCCCCACCTT
 ACCGTCGTGAAAAGAGGCCAGCTCTGCCGACGGCACCATTGGCCCTACCTTGAAGC
 CCACCTTGGCTACACGCACAGCCCAACCAAGACCATACCCAGGCTCCAACGAAGCAGAA
 CAGGTGGTGGCTTTGTGCTGCCCCCGCCTGGCACTGACCTTGTGTTTTACGGGAAGGCG
 CAAGCAGTCTGTGCAGGTGCCGGGCCCTGTTGCAGCTTCCACAGAAGCCCTGTTGCAGG
 AGGCCAGTGCTCTGGCCTGAGTTGGGTTGTGGCCTTACCCAGGTGAAGCAAGAGAAGG
 CGGATACCCAGGACGAGTGGACACCAGGCACAGCTGTCTGACTTCTCCCGTATTGGTGC
 CTGGCTGCCCTAGCAAGGAGTAGACCCAGGCCTGCCTTCTGTGAAGCAAGAGCCACCTG
 ACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCCAAATTGGCCCCAGAGG
 AAGAGGCAGGAGGGGCTGGCACACCCGTGATCACGGAGATTTTCAGCCTGGGTGGAACCC
 GCTTCCGAGATACAGCAGTCTGGTTGCCAAGGTCAAAGACCTTAAAAACCTGGAGCTA
 GAAAGCAGTAGACTGGAGGCTTCTACAGACTGTAGGATCAAG: : : : : GGCAGGCACT
 CGGGAAGGGAAGATGGATGTAAAGTGTGGGAGACCAGGACACAGTGGAGCCACAGGCA
 CGAGCTGGAACCCACGAGGATGGCTGGAACCCATGTCAGTCTCTCACCACCTCCAGCTT
 CGATGATGTGGGTGCTCTGCAGAAGAAGCTGGTGCCTTCCCTCACAGAGTTAAATATGCA
 TCTGGCCAGGAATTAGAGAAGCTGAAAGGATGATCCTGGGGAAGGTGGAGCAGCTGCAG
 GCCTGGCTGCAGGCTGACTACTGCCACACCAACGAGGTGATCTAGCAGATACATGGCA
 ACGTGTGAACTGCAACAACGCTGGTGGCCAGCACCAACCTTCCAAGTGTAAAAACAAT
 GTGCTGCTGCTTCACTTCCGCCCTCCGGTTATCAAGCAAAATGTCTTTGTGGCCATCT
 TACTGGAAGAGAGTTCCGGGAAACATAGCCTCACCAAGGTGACACATTACAAAGCCACCC
 TACCATGAATCCGCTCCCAAGGGTCTCACTGCTCACCTGAGGATAACTCAATATAACTAT
 GTTGCTGAAAAATGCAAAGCTGAAGACCATGGATTTATGGTGATTCCAGCAAGTACAGAG
 ATTCTATGAAGCCACCCAGAAAAAATGCTGGTCTGGCTATTTTTGTGTCATTTATT
 CAAGTATTGAGAACCTGGCCTGTGGTAGGCACTGACTTAATACTAGGATACAGAAATGC
 AAAAGATACGGCCATGCAATTTTATTAATGCATCAATATGTATTACAAAAA
 AAAAAA

Restriction Sites: NotI-NotI
ACCN: NM_015844
Insert Size: 2600 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_015844.1.
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_015844.1</u> , <u>NP_056669.1</u>
RefSeq Size:	2793 bp
RefSeq ORF:	1650 bp
Locus ID:	4152
UniProt ID:	<u>Q9UIS9</u>
Cytogenetics:	18q21.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a member of a family of nuclear proteins related by the presence of a methyl-CpG binding domain (MBD). These proteins are capable of binding specifically to methylated DNA, and some members can also repress transcription from methylated gene promoters. This protein contains multiple domains: MBD at the N-terminus that functions both in binding to methylated DNA and in protein interactions; several CXXC-type zinc finger domains that mediate binding to non-methylated CpG dinucleotides; transcriptional repression domain (TRD) at the C-terminus that is involved in transcription repression and in protein interactions. Numerous alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (3) lacks an in-frame coding exon compared to variant 1, resulting in a shorter isoform (3) missing an internal protein segment compared to isoform 1.</p>