

Product datasheet for **SC331502**

MBD1 (NM_001204143) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MBD1 (NM_001204143) Human Untagged Clone
Tag: Tag Free
Symbol: MBD1
Synonyms: CXXC3; PCM1; RFT
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331502 representing NM_001204143.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGGCCCTGGCTGGAAGCGCCGGAAGTCTTTCGCAAG
TCAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAA
GTTGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACCTCTTCGACTTCAAACAAGGCATCTTG
TGCTATCCAGCCCCAAGGCCATCCCCTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCA
GCCAAGACTCGGAAACGTCAGGTTGGACCCAGAGTGGTGGAGTCAAGGAGGAGCCCGAGGGATGAG
ACCAAGGCTGACTGACACAGCCAGCTTCATCCCTGCTCCTGGGTGCTGTGAGAATGTGGAATC
AGCTTCTCAGGGGATGGACCCAAAGGCAGCGGCTCAAAACGTTGTGCAAGACTGTCGAGCACAGAGA
ATTGCCTTCAACCGGGAACAGAGAATGTTAAGCGTGTGGGCTGTGGGGAGTGTGCAGCCTGCCAGGTA
ACAGAAGACTGTGGGGCCTGCTCCACCTGCCTCCTGCAGCTGCCCATGATGTGGCATCGGGGCTGTTT
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CCCACAGAGCCGACCCAGAGCCTGGCCCCCTCGCCACTGCCGAGTTCATCTATTACTGTGTAGAC
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GTGCTGCCCGCCTGGCACTGACCTTGTGTTTTACGGGAAGGCGCAAGCAGTCTGTGCAGGTGCCG
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GAGCCACCTGACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCAAATTGGCCCCAGAG
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GATACAGCAGTCTGGTTGCCAAGGGCAGGCACTCGGGAAGGGAAGATGGATGTAAGTGTGGGAGCCG
AGGACACAGTGGAGCCCACGAGCAGAGCTGGAACCCACGAGGATGGCCTGGAACCCATGTCAGTCTCT
CACCACCTCCAGCTTCGATGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001204143



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Insert Size:	1608 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:	<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:	NM_001204143.1
RefSeq Size:	2675 bp
RefSeq ORF:	1608 bp
Locus ID:	4152
UniProt ID:	Q9UIS9
Cytogenetics:	18q21.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	58.8 kDa
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 (12) lacks 3 non-consecutive coding exons, and uses an alternate donor splice site at the 5' non-coding exon and an alternate acceptor splice site at the 3' terminal exon compared to variant 1. This results in a frame-shift in the 3' coding region, and a shorter isoform (12) with a distinct C-terminus compared to isoform 1.</p>