

## Product datasheet for **SC331499**

### **MBD1 (NM\_001204140) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MBD1 (NM\_001204140) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MBD1  
**Synonyms:** CXXC3; PCM1; RFT  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331499 representing NM\_001204140.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGGCCCTGGCTGGAAGCGCCGGAAGTCTTTTCGCAAG
TCAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAA
GTTGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACCTCTTCGACTTCAAACAAGGCATCTTG
TGCTATCCAGCCCCAAGGCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCA
GCCAAGACTCGGAAACGTCAGGTTGGACCCAGAGTGGTGAAGTCAAGGAGGAGCCCGAGGGATGAG
ACCAAGGCTGACTGACACAGCCAGCTTCATCCCTGCTCCTGGGTGCTGTGAGAATGTGGAATC
AGCTTCTCAGGGGATGGCACCCAAAGGCAGCGGCTCAAAACGTTGTGCAAGACTGTCGAGCACAGAGA
ATTGCCTTCAACCGGGAACAGAGAATGTTTAAAGCGTGTGGGCTGTGGGGAGTGTGCAGCCTGCCAGGTA
ACAGAAGACTGTGGGGCCTGCTCCACCTGCCTCCTGCAGCTGCCCATGATGTGGCATCGGGGCTGTTT
TGCAAGTGTGAACGGAGACGCTGCCTCCGGATTGTGAAAGGAGCCGAGGGTGTGGAGTATGCCGGGGC
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CCAGAGCCACAGAGCCGACCCAGAGCCCTGGCCCCCTGCCACCTGCCGAGTTCATCTATTACTGT
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CCCACCTTGGCTACACGCACAGCCCAACCAGACCATACCCAGGCTCCAACGAAGCAGGAAGCAGGTGGT
GGCTTTGTGCTGCCCGCCTGGCACTGACCTTGTGTTTTACGGGAAGGCGCAAGCAGTCTGTGCAG
GTGCCGGGCCCTGTTGCAGCTTCCACAGAAGCCCTGTTGCAGGAGGCCAGTGTCTGGCCTGAGTTGG
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AAGCAAGAGCCACTGACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCCAAATTGGCC
CCAGAGGAAGAGGAGGAGGGGCTGGCACCCCGTATCACGGAGATTTTCAGCCTGGGTGGAACCCGC
TTCCGAGATACAGCAGTCTGTTGCCAAGTCCAAAGACCTTAAAAAACCTGGAGCTAGAAAGCAGTAG
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**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001204140
<b>Insert Size:</b>	1725 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001204140.1</a>
<b>RefSeq Size:</b>	2628 bp
<b>RefSeq ORF:</b>	1725 bp
<b>Locus ID:</b>	4152
<b>UniProt ID:</b>	<a href="#">Q9UIS9</a>
<b>Cytogenetics:</b>	18q21.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	63 kDa
<b>Gene Summary:</b>	<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 (9) is the same as variant 7, except lacks an in-frame coding exon, resulting in an isoform (9, also known as RFT-B) that is missing an internal protein segment compared to isoform 7. Unlike isoform 7, this isoform fails to bind FGF-2 promoter and repress FGF-2 gene expression (PMID:10187827).</p>