

Product datasheet for **SC314167**

MBD1 (NM_015846) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_015846) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD1
Synonyms:	CXXC3; PCM1; RFT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene ORF sequence for NM_015846 edited</p> <pre> ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGGCCCTGGCTGGAAGCGCCGCGAAGTC TTTCGCAAGTCAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGA GACAGGATCCGAAGCAAAGTTGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACC CTCTTCGACTTCAAACAAGGCATCTTGTGCTATCCAGCCCCAAGGCCATCCCCGTGCA GTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCAGCCAAGACTCGGAAACGTCAGGTT GGACCCACAGAGTGGTGGGTCAGGAAGGAGGCCCGAGGGATGAGACCAAGGCTGACACT GACACAGCCCCAGCTTCAATCCCTGCTCCTGGGTGCTGTGAGAAGTGTGAATCAGCTTC TCAGGGGATGGCACCCAAAGGCAGCGGCTCAAAACGTTGTGCAAAGACTGTCGAGCACAG AGAATTGCCTTCAACCGGGAACAGAGAATGTTTAAAGCGTGTGGGCTGTGGGGAGTGTGCA GCCTGCCAGGTAACAGAAGACTGTGGGGCTGCTCCACCTGCCTCCTGCAGCTGCCCCAT GATGTGGCATCGGGGCTGTTCTGCAAGTGTGAACGGAGACGCTGCCTCCGGATTGTGAA AGGAGCCGAGGGTGTGGAGTATGCCGGGGCTGTCAGACCAAGAGGATTGTGGCCATTGC CCCATCTGCCTTCGCCCTCCCCGCCCTGGTCTCAGGCGCCAGTGGAAATGTGTCCAGCGA CGTTGCCTACGGGTAAACATGCCCGCCGCAAGGGAGGCTGTGACTCCAAGATGGCTGCC AGGCGGCCGCCCGAGGCCAGCCACTGCCTCCACCACCCCATCACAGTCCCCAGAGCCC ACAGAGCCGCACCCAGAGCCCTGGCCCCCTCGCCACCTGCCAGTTCATCTATTACTGT GTAGACGAGGACGAGCTACAGCCCTACACGAACCGCCGGCAGAACCGCAAGTGCGGGGCC TGTGCAGCCTGCCTACGGCGGATGGACTGTGGCCGCTGCGACTTCTGCTGCGACAAGCCC AAATTCGGGGGCAGCAACCAGAAGCGCCAGAAGTGTGTTGGCGCAATGCCTGCAGTTT GCCATGAAGCGGCTGTGCCAGTGTCTGGTCAGAGTCTGAGGATGGGGCAGGATCGCCC CCACCTTACCCTGTCGAAAGAGGCCAGCTCTGCCGACGGCACCATCTTGGCCCTACC TTGAAGCCACCTTGGCTACACGCACAGCCCAACCAGACCATACCCAGGCTCCAACGAAG CAGGAAGCAGGTGGTGGCTTTGTGCTGCCCGCCCTGGCACTGACCTTGTGTTTTACGG GAAGGCGCAAGCAGTCCCTGTGCAGGTGCCGGGCCCTGTTGCAGCTTCCACAGAAGCCCTG TTGCAGGAGGCCAGTGTCTGGCTGAGTTGGTTGTGGCCTTACCCAGGTGAAGCAA GAGAAGGCGGATACCCAGGACGAGTGGACACCAGGCACAGCTGTCCTGACTTCTCCCGTA TTGGTGCCTGGCTGCCCTAGCAAGGCAGTAGACCCAGGCCTGCCTTCTGTGAAGCAAGAG CCACCTGACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCCAAATTTGGCC CCAGAGGAAGAGGAGGAGGGGCTGGCACACCCGTGATCACGGAGATTTTCAGCCTGGGT GGAACCCGCTTCCGAGATACAGCAGTCTGGTTGCCAAGGTCCAAAGACCTTAAAAACCT GGAGCTAGAAAGCAGTAG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_015846
Insert Size:	3200 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_015846.2](#), [NP_056671.2](#)

RefSeq Size: 2961 bp

RefSeq ORF: 1818 bp

Locus ID: 4152

UniProt ID: [Q9UIS9](#)

Cytogenetics: 18q21.1

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]
Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1. Variants 1 and 14 encode the same isoform.