

Product datasheet for **SC314111**

MBD1 (NM_015845) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_015845) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD1
Synonyms:	CXXC3; PCM1; RFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

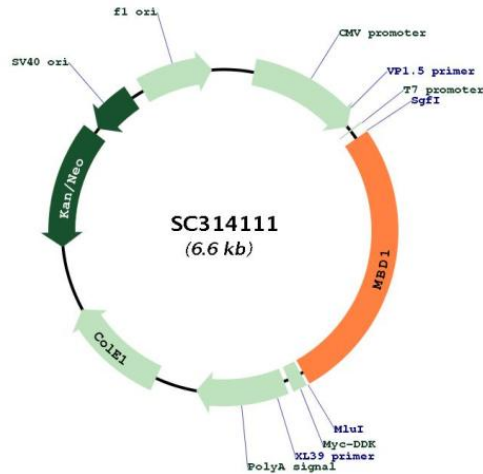


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Fully Sequenced ORF: >SC314111 representing NM_015845.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGGCCCTGGCTGGAAGCGCCGCAAGTCTTTCGCAAG
TCAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAA
GTTGAGCTGACTCGATACCTGGGCCCTGGCTGTGATCTCACCCCTCTCGACTTCAAACAAGGCATCTTG
TGCTATCCAGCCCCAAGGCCATCCCCTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCA
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ACCAAGGCTGACTGACACAGCCAGCTTCAATCCCTGCTCCTGGGTGCTGTGAGAACTGTGGAATC
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CGCCAGAAGTGTGTTGGCGCAATGCCTGCAGTTGCCATGAAGCGGCTGTGCCAGTGTCTGGTCA
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CACCATCTTGGCCCTACCTTGAAGCCACCTTGGCTACACGCACAGCCCAACCAGACCATACCAGGCT
CCAACGAAGCAGGAAGCAGGTGGTGGCTTGTGCTGCCCGCCCTGGCACTGACCTTGTGTTTTACGG
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GTAGACCAGGCTGCCTTCTGTGAAGCAAGAGCCACTGACCCAGAGGAGGACAAGGAGGAGAACAAG
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ATTTTCAGCCTGGGTGGAACCCGCTTCCGAGATACAGCAGTCTGGTTGCCAAGTCTGCAGGGCAGGCAC
TCGGGAAGGGAAGATGGATGTAAGTGTGGGAGACCGAGGACACAGTGGAGCCACGAGCAGGCTGG
AACCCACGAGGATGGCTGGAACCCATGTCAGTCTCTACCACCTCCAGCTTCGATGATGTGGGTGTC
TGCAGAAGAAGCTGGTGCCTTCTCACAGAGT TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_015845

Insert Size: 1761 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_015845.3](#)

RefSeq Size: 3005 bp

RefSeq ORF: 1761 bp

Locus ID: 4152

UniProt ID: [Q9UIS9](#)

Cytogenetics: 18q21.1

Domains:	MBD, zf-CXXC
Protein Families:	Druggable Genome, Transcription Factors
MW:	64.7 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 (2) is missing 3 non-consecutive coding exons compared to variant 1, the last of which causes a frame-shift. This results in a shorter isoform (2) with a distinct C-terminus compared to isoform 1.</p>