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Product datasheet for SC111970

MBD1 (NM_002384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_002384) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD1
Synonyms:	CXXC3; PCM1; RFT
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002384, the custom clone sequence may differ by one or more nucleotides

ATGGCTGAGGACTGGCTGGACTGCCCGGCCCTGGGCCCTGGCTGGAAGCGCCGCGAAGTCTTTCGCAAGT
CAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAAGT
TGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACCCTCTTCGACTTCAAACAAGGCATCTTGTGC
TATCCAGCCCCCAAGGCCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCAGCCA
AGACTCGGAAACGTCAGGTTGGACCCCAGAGTGGTGAGGTCAGGAAGGAGGCCCCGAGGGATGAGACCAA
GGCTGACACTGACACAGCCCCAGCTTCATTCCCTGCTCCTGGGTGCTGTGAGAACTGTGGAATCAGCTTC
TCAGGGGATGGCACCCAAAGGCAGCGGCTCAAAACGTTGTGCAAAGACTGTCGAGCACAGAGAATTGCCT
TCAACCGGGAACAGAGAATGTTTAAGCGTGTGGGCTGTGGGGAGTGTGCAGCCTGCCAGGTAACAGAAGA
CTGTGGGGCCTGCTCCACCTGCCTCCTGCAGCTGCCCCATGATGTGGCATCGGGGCTGTTCTGCAAGTGT
GAACGGAGACGCTGCCTCCGGATTGTGGAAAGGAGCCGAGGGTGTGGAGTATGCCGGGGCTGTCAGACCC
AAGAGGATTGTGGCCATTGCCCCATCTGCCTTCGCCCTCCCCGCCCTGGTCTCAGGCGCCAGTGGAAATG
TGTCCAGCGACGTTGCCTACGGGGTAAACATGCCCGCCGCAAGGGAGGCTGTGACTCCAAGATGGCTGCC
AGGCGGCGCCCCGGAGCCCAGCCACTGCCTCCACCACCCCCATCACAGTCCCCAGAGCCCACAGAGCCGC
ACCCCAGAGCCCTGGCCCCCTCGCCACCTGCCGAGTTCATCTATTACTGTGTAGACGAGGACGAGCTAAA
GCGGCTGCTGCCCAGTGTCTGGTCAGAGTCTGAGGATGGGGCAGGATCGCCCCCACCTTACCGTCGTCGA
AAGAGGCCCAGCTCTGCCCGACGGCACCATCTTGGCCCTACCTTGAAGCCCACCTTGGCTACACGCACAG
CCCAACCAGACCATACCCAGGCTCCAACGAAGCAGGAAGCAGGTGGTGGCTTTGTGCTGCCCCCGCCTGG
CACTGACCTTGTGTTTTTACGGGAAGGCGCAAGCAGTCCTGTGCAGGTGCCGGGCCCTGTTGCAGCTTCC
ACAGAAGCCCTGTTGCAGGCAGTAGACCCAGGCCTGCCTTCTGTGAAGCAAGAGCCACCTGACCCAGAGG
AGGACAAGGAGGAGAACAAGGATGATTCTGCCTCCAAATTGGCCCCAGAGGAAGAGGCAGGAGGGGCTGG
CACACCCGTGATCACGGAGATTTTCAGCCTGGGTGGAACCCGCTTCCGAGATACAGCAGTCTGGTTGCCA
AGGTCCAAAGACCTTAAAAAACCTGGAGCTAGAAAGCAGTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002384 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTACCGCTTCAGAGG
AGGCGGCCGCGGAGGAGGAGGAAGGGGAGGAGGGCGAGGCGGGAGGTGCAGGAGGGACCC
TCGCCATGGGTCCACGGGCCTAGAGTGGCGGAAGATACCGGCCTGGTGCCAAACTGGCTA
CTGCTGCTTCCTGTGGCCTCCATGGCTGAGGACTGGCTGGACTGCCCGGCCCTGGGCCCT
GGCTGGAAGCGCCGCGAAGTCTTTCGCAAGTCAGGGGCCACCTGTGGACGCTCAGACACC
TATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAAGTTGAGCTGACTCGATACCTG
NGCCCTGCGTGTGATCTCACCCTCTTCGACTTCAAACAAGGCATCTTGTGCTATCCAGCC
CCCAGGCCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCAGCCA
AGACTTCGAAACGTCAGGTTGGACCCCACAGTGGTGAGGTCANGAAAGAGGCCCCCGAGG
ATGAGACCAAGGCTGACACTGACACAGCCCCAGCTTCATTTCCTGCTCCTGGGTGCTGTG
AGAACTGTGGAATCACCTTCTCAGGGGATGGCACCCCAAAGCAGCGGCTCAAAACGTTGT
GCAAAGACTGTTCAGCACAGAGAATTGCCTTCACCGGGAACAGAGAATGTTAAACCCTGT
GGCCTGTGGGGAGTGTGCACCCTGCCAGTAACAAAAGACTGGGGGGCCTGTTTCACTTGC
CTCCTTGANTTTGCCCATGAGGTGGGATCGGGGCTGTTTTTCCAGTGGAAACGGAAACCC
TCCCTCCCCATTGGGGAAAGAACCCCGGTTGTGGAAAATTCCCGGGCCTTCACAACCAAA
AGGAATGTGCCCATTCCCCCCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002384 unedited
GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGTAATACATATTGATGCATTTAA
TAAAATTGCATGGGGCCGTATCTTTTGCATTTCTGTATCCTAGTATTAAGTACAGTGCCT
ACCACAGGCCAGGTTCTCAATACTTGAATAAATGACACAAAAATAGCCAGGACCAGCAAG
TTTTTTCTGGGTGGGCTTCATAGAATCTCTGTACTTGCTGGAATCACCATGAAATCCATG
GTCTTCAGCTTTGCATTTTCAGCAACATAGTTATATTGAGTTATCCTCAGGTGAGCAGTG
AGACCCTTGGGAGCGGATTCATGGTAGGGTGGCTTTGTAATGTGTCACCTTGGTGAGGCT
ATGTTTCCCGGAACTCTCTTCCAGTAAGATGGGCCACAAGAGACATTTTGCTTGATAACC
GGAGGGCGGAAGTGAAGCAGCAGCACATTGTTTTTACACTTGGAAGGTTGGTGCTGGGGC
ACCAGGCGTTGTTGCAGTTCACACGTTGCCATGTATCTGCTAGATCACCTCGTTGGTGTG
GGCAGTAGTCAGGCCTGCAGCCAGGCCTGCAGCTGCTCCACCTTCCCCAGGATCATCCTT
TCAGCTTCTCTAATTCCTGNGCCAGATGCATATTTAACTCTGTGAGGAAGGGCACCCAGC
TTCTTCTGCAGGACACCCACATCATCGAAGCTTGAGGTGGTGAGAGACTGACATGGGTTC
CAGGCCATCCTNGTGGGTTCCAACTCGTGCTCGTGGGCTTCACTGGGTCCTCGGCCTCCA
CACTTTACATACCTCTTCCCTTCCCGAAGCCTGCCCTGGAGACTTGATCCCACATCCGGA
GAAACCTCCACCTACGCCTTTTACCCCAAGTTTTTAAGGGCTTGGACCTGGAACCAACCG
CTGTATCTGGACCGGTTCAACCCGCCTGAAACTCCGGACACGGGGGGCAACCTCCTGCTC
TCTTGGG

Restriction Sites: NotI-NotI

ACCN: NM_002384

Insert Size: 2500 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:	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_002384.1, NP_002375.1
RefSeq Size:	2978 bp
RefSeq ORF:	1512 bp
Locus ID:	4152
UniProt ID:	Q9UIS9
Cytogenetics:	18q21.1
Domains:	MBD, zf-CXXC
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 (4) lacks 2 in-frame non-consecutive coding exons compared to variant 1, resulting in a shorter isoform (4) missing two internal protein segments compared to isoform 1.