

Product datasheet for **SC110013**

MBD2 (NM_015832) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD2 (NM_015832) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD2
Synonyms:	DMTase; NY-CO-41
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_015832 edited GCGCGCCGCGCTGCGGGCGGGCGGGTCTCCGGATTCCAAGGGCTCGGTTACGGAAGAA GCGCAGCGCCGGCTGGGAGGGGGCTGGATGCGCGCGCACCCGGGGGAGCCGCTGCTG CCCGAGCAGGAGGAGGGGAGAGTGCGCGGGCGGCAGCGGCGCTGGCGGCGACTCCCG CATAGAGCAGGGGGCCAGGGCAGCGCGCTCGCCCCGTCCCCGGTGAGCGCGTGCAG GGAAGGCGCTCGGGGCGGCGCCGTGGCCGGGGCGGTGGAAGCAGGCGGCGGGGCGG CGGCGTCTGTGGCCGTGGCCGGGGCCGGGGCCGTGGCCGGGACGGGACGGGGCCGGG CCGGGGCCGCGGCGTCCCCGAGTGCCGCGCAGCGCCTTGCCGGGACGGGCGGCGGCTG CGGCGGCGGCGCAGCGGTGGCCGGCGGCCCCCCGGCGGAGCCGGTCCCTTTCCCGTC GGGAGCGCGGGCCGGGGCCAGGGACCCCGGCCACGGAGAGCGGAAGAGGATGGA TTGCCCGGCCCTCCCCCGGATGGAAGAAGGAGGAAGTATCCGAAAATCTGGGCTAAG TGCTGGCAAGAGCGATGTCTACTACTTCAAGTCAAGTGGTAAGAAGTTCAGAAGCAAGCC TCAGTTGGCAAGGTACCTGGGAAATACTGTTGATCTCAGCAGTTTTGACTTCAGAACTGG AAAGATGATGCCTAGTAAATTACAGAAGAACAAACAGAGACTGCGAAAACGATCCTCTCAA TCAAAAATAAGCTGCGCTGGAACACTCATCGTCCTGCACCATGGCATGCGCTTTCAAGACT CTGCTTGCTCATACGCTGTTGCTCTGCTTGAATGTGCTTACCCCTTCCCCTTCATCT GGTGAACCTCTACTCATCAAGACCCAGCTTCATTGTCTCCATCTCTGGGAAGCCTGCC TGCATACTCCAGGCAGAACCAATCCTTTCTCCATAATCTAGA
Restriction Sites:	NotI-NotI
ACCN:	NM_015832
Insert Size:	1000 bp



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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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_015832.3.
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:	<u>NM_015832.3</u> , <u>NP_056647.1</u>
RefSeq Size:	1357 bp
RefSeq ORF:	909 bp
Locus ID:	8932
UniProt ID:	<u>Q9UBB5</u>
Cytogenetics:	18q21.2
Domains:	MBD
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Gene Summary:	<p>DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that the this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region, compared to variant 1, resulting in a shorter protein (testis-specific) that has a shorter C-terminus, compared to isoform 1.</p>