

Product datasheet for **SC321741**

MBD2 (NM_003927) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD2 (NM_003927) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD2
Synonyms:	DMTase; NY-CO-41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003927.3
 CCACGCGTCCGCCGGGATTCCAAGGGCTCGGTTACGGAAGAAGCGCAGCGCCGGCTGGGG
 AGGGGGCTGGATGCGCGCGCACCCGGGGGGAGGCCGCTGCTGCCCGGAGCAGGAGAGGG
 GGAGAGTGCGGCGGGCGGAGCGGCGCTGGCGGCGACTCCGCCATAGAGCAGGGGGGCCA
 GGGCAGCGCGCTCGCCCCGTCCCCGGTGAGCGGCGTGCGCAGGGAAGCGCTCGGGGCGG
 CGGCCGTGGCCGGGGCGGTGGAAGCAGCGGGCCGGGGCGGCGCGCTCTGTGGCCGTGG
 CCGGGCCGGGGCCGTGGCCGGGACGGGGACGGGGCCGGGGCCGGGGCCGGGGCCGGCCGTCC
 CCCGAGTGGCGGCGAGCGGCTTGCGGGGACGGCGGCGGCTGCGCGGCGGCGGCGAGCGG
 TGGCGGCGGCGCCCCCGCGGGAGCCGGTCCCTTTCCCGTGGGGAGCGCGGGGCGGG
 GCCCAGGGGACCCGGGCCACGGAGAGCGGGAAGAGGATGGATTGCCCGGCCCTCCCCC
 CGGATGGAAGAAGGAGGAAGTATCCGAAAATCTGGGCTAAGTGTGGCAAGAGCGATGT
 CTACTACTCAGTCCAAGTGGTAAGAAGTTCAGAAGCAAGCCTCAGTTGGCAAGGTACCT
 GGGAAATACTGTTGATCTCAGCAGTTTTGACTTCAGAAGTGAAGATGATGCCTAGTAA
 ATTACAGAAGAACAACAGAGACTGCGAAACGATCCTCTCAATCAAATAAAGGTAAACC
 AGACTTGAATACAACATTGCCAATTAGACAACAGCATCAATTTTCAAACAACCGGTAAC
 CAAAGTACAAATCATCCTAGTAATAAAGTGAAATCAGACCCACAACGAATGAATGAACA
 GCCACGTGAGCTTTTCTGGGAGAAGAGGCTACAAGGACTTAGTGATCAGATGTAACAGA
 ACAAATTATAAAACCATGGAATACCCAAAGGTCTTCAAGGAGTTGGTCCAGGTAGCAA
 TGATGAGACCCCTTTATCTGCTGTTGCCAGTGCTTGCACACAAGCTCTGCGCCAATCAC
 AGGGCAAGTCTCCGCTGCTGTGGAAAAGAACCTGCTGTTTGGCTTAACACATCTCAACC
 CCTCTGCAAAGCTTTTATTGTACAGATGAAGACATCAGGAAACAGGAAGAGCGAGTACA
 GCAAGTACGCAAGAAATTGGAAGAAGCACTGATGCGAGACATCTGTGCGGAGCTGCTGA
 TACAGAAGAGATGGATATTGAAATGGACAGTGGAGATGAAGCCTAAGAATATGATCAGT
 AACTTTTCGACCGACTTTCCCAAGAGAAAATTCCTAGAAATTGAACAAAATGTTTCCAC
 TGGCTTTTGCCTGTAAGAAAAAATGTACCCGAGCACATAGAGCTTTTTAATAGCACTA
 ACCAATGCCTTTTTAGATGTATTTTTGATGTATATATCTATTATTCAAAAATCATGTTT
 ATTTTGTGCTAGGACTTAAAATAGTCTTTTGTAAATCAAGCAGGACCCTAAGATGA
 AGCTGAGCTTTTGTGCCAGGTGCAATCTACTGAAATGTAGCACTTACGTAAAACATTT
 GTTTCCCCCAGTTTTAATAAGAACAGATCAGGAATTCTAAATAAATTTCCAGTTAAA
 GATTATTGTGACTTCACTGTATATAACATATTTTTATACTTTATTGAAAGGGGACACCT
 GTACATTTCCATCATCACTGTAAAGACAATAAATGATTATATTCACAAAAA
 AAAA

Restriction Sites: Please inquire

ACCN: NM_003927

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<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:	NM_003927.3 , NP_003918.1
RefSeq Size:	2584 bp
RefSeq ORF:	1236 bp
Locus ID:	8932
UniProt ID:	Q9UBB5
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 (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>