

## Product datasheet for **SC212565**

### **MBD2 (NM\_003927) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	MBD2 (NM_003927) Human 3' UTR Clone
Symbol:	MBD2
Synonyms:	DMTase; NY-CO-41
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003927
Insert Size:	2000 bp



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**Insert Sequence:** >SC212565 3'UTR clone of NM\_003927  
 The sequence shown below is from the reference sequence of NM\_003927. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ATTGAAATGGACAGTGGAGATGAAGCCTAAGAATATGATCAGGTAACCTTCGACCGACTTTCCCAAGA
GAAATTCCTAGAAATTGAACAAAAATGTTTCCACTGGCTTTTGCCTGTAGAAAAAAAATGTACCCGA
GCACATAGAGCTTTTTAATAGCACTAACCAATGCCTTTTATAGTGTATTTTTGATGTATATATCTATTA
TTCAAAAAATCATGTTTATTTGAGTCTAGGACTTAAAATTAGTCTTTTGTAAATATCAAGCAGGACCC
TAAGATGAAGCTGAGCTTTTATGATGCCAGGTGCAATCTACTGGAATGTAGCACTTACGTAACATTTG
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ACTTCACTGTATATAACATATTTTTATACTTTATTGAAAGGGGACACCTGTACATTCTCCATCATCA
CTGTAAAGACAAAATAAATGATTATATTCACAGACTGATTGGAATTCCTTTCTGTTGAAAAGCACACAAA
TAAGAACCCTCGTTAGCCTTCTCTGATTTACATTCAACTCTGATCCCTGGGCCTTAGGTTTGACAT
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TGACTTGGACTTTTGATAGTTCTATAAGAATAAGGCTTTTTCTCCCTGGGCATGAGTCAGATACACA
AGGACCTTCAGGTGTTACTAGAAGGCGTCCATGTTTATTGTTTTTAAAGAATGTTTGGCACTCTCTA
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ACAGAGTTGCTTAATGAAAGGGTTTGAATACTTTACAAACCATTACCTGTACCTGGCCTGGCCTCCAA
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GGAAGGGAGGGAGTGGTTATAAGCAAATGAAAACAAATTTTGGAGACAGAGCAAAAAGTAAATCATTC
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GGGAAGAAGAGGGGAATAGTCAAAGCAATATGACTAGCTAGGTTTGGGCTGCTGTTGGGCTGCTGTTT
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CTGGACCCTAGGGCCATTAGTTTCTTGAAGCAGTCTGCTGGTGGATGAGCAGGAAAATTGTAGACC
CTGGGAAGCCAATTGGTAGAGGGTGCCTGCCCGCCCATCAGACTGTCCCACTGGGGTGGGGGTGAGG
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TCCCCGAGTCCACGATTCTTCATTTGTGATCAGGGTTGGGGTAACTTCCCTTGGTGATCATATATTC
TTTTTACAAACCAATCCAGCCAAGATATATGTGCTTTTCTAAACAGCTTGTAAAAGCAAAAACACAATG
TATACACATATAAAACTGATTTTTTTTTTTTTGCTTATACTTTGCTCAGGTGGAGAACAAGGTATGA
AAGCCATTATATGGTGTCCCTTGGGGACCATCCATAAGTCCAGGGTGTCCCAATATACCCACAAGA
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_003927.5](#)

**Summary:**

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]

**Locus ID:**

8932

**MW:**

76.4