

Product datasheet for **SC334891**

MBD3 (NM_001281454) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD3 (NM_001281454) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001281454, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGGAAGAGCCCCGAGCGGGAAGAAGTCCGCAGCAAGCCGCAGCTGGCGCGCTACCTGGGCGGCT
CCATGGACCTGAGCACCTTCGACTTCCGCACGGCAAGATGCTGATGAGCAAGATGAACAAGAGCCGCCA
GCGCGTGCCTACGACTCCTCAACCAGGTCAAGGGCAAGCCGACCTGAACACGGCGCTGCCGTGCGC
CAGACGGCGTCCATCTTCAAGCAGCCGGTGACCAAGATTACCAACCACCCAGCAACAAGGTCAAGAGCG
ACCCGCAAGGGCGGTGGACCAGCCGCGCCAGCTCTTCTGGGAGAAGAAGCTGAGCGGCCTGAACGCCTT
CGCATTGCTGAGGAGCTGGTCAAGACCATGGACCTCCCCAAGGGCTGCAGGGGGTGGACCTGGCTGC
ACGGATGAGACGCTGCTCGGCCATCGCCAGCGCCCTGCACACTAGCACCATGCCATCACGGGACAGC
TCTCGGCCGCGTGGAGAAGAACCCTGGCGTATGGCTCAACACCACGAGCCCTGTGCAAAGCCTTCAT
GGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGCAGCAGGTGCGGAAGCGGCTGGAGGAGCG
CTGATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCGTGACGGGGAGGCGCCGCTGGACAAGGCCT
GCGCTGAGGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGGCCCGACCCGACCCGGAGATGGA
GCACGCTAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001281454
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_001281454.1](#), [NP_001268383.1](#)

RefSeq Size: 2417 bp

RefSeq ORF: 780 bp

Locus ID: 53615

UniProt ID: [O95983](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. This gene belongs to a family of nuclear proteins which are characterized by the presence of a methyl-CpG binding domain (MBD). The encoded protein is a subunit of the NuRD, a multisubunit complex containing nucleosome remodeling and histone deacetylase activities. Unlike the other family members, the encoded protein is not capable of binding to methylated DNA. The protein mediates the association of metastasis-associated protein 2 with the core histone deacetylase complex. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.