

Product datasheet for **SC331040**

MBD4 (NM_001276273) Human Untagged Clone

Product data:

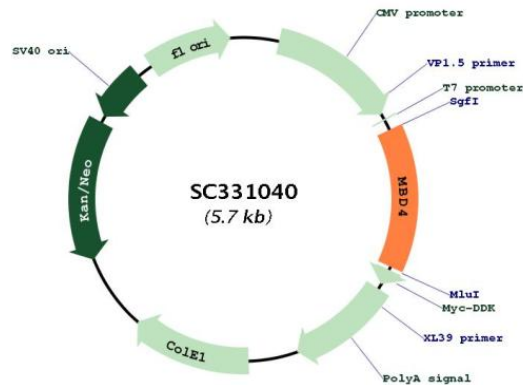
Product Type: Expression Plasmids
Product Name: MBD4 (NM_001276273) Human Untagged Clone
Tag: Tag Free
Symbol: MBD4
Synonyms: MED1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331040 representing NM_001276273.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGCACGACTGGGCTGGAGAGTCTGAGTCTGGGGACCGGGAGCTGCCCCACCGTCACCTCTAGT
GAGCGCTAGTCCCAGACCCGCCGAATGACCTCCGCAAAGAAGATGTTGCTATGGAATTGGAAAGAGTG
GGAGAAGATGAGGAACAAATGATGATAAAAAGAAGCAGTGAATGTAATCCCTTGTACAAGAACCCATC
GCTTCTGCTCAGTTTGGTCTACTGCAGGAACAGAATGCCAAGATACCATCCCACGAACACAGATAGAA
AGAAGGAAAACAAGCCTGTATTTTTCCAGCAAATAACAAGAAGCTCTTAGCCCCCAGACGTAAA
GCCTTTAAGAAATGGACACCTCCTCGGTCACCTTTAATCTCGTTCAAGAAACACTTTTTTCATGATCCA
TGAAGCTTCTCATCGCTACTATATTTCTCAATCGGACCTCAGGCAAAATGGCAATACCTGTGCTTTGG
AAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTAGCAAGAACCGCAGACTGGAGAGATGTGTCAGAACTT
CTTAAACCTCTTGGTCTCTACGATCTTCGGGCAAAAACCATTTGCAAGTTCTCAGATGAATACCTGACA
AAGCAGTGGAAAGTATCCAATTGAGCTTCATGGGATTGGTAAATATGGCAACGACTCTTACCGAATTTT
TGTGTCAATGAGTGAAGCAGGTGCACCCTGAAGACCACAAATTAATAAATATCATGACTGGCTTTGG
GAAAATCATGAAAATTAAGTCTATCTTAA
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:


ACCN: NM_001276273

Insert Size: 789 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_001276273.1](#)

RefSeq Size: 1706 bp

RefSeq ORF: 789 bp

Locus ID: 8930

UniProt ID: [O95243](#)

Cytogenetics: 3q21.3

Protein Families: Druggable Genome

Protein Pathways: Base excision repair

MW: 30.3 kDa

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 an MBD domain at the N-terminus that functions both in binding to methylated DNA and in protein interactions and a C-terminal mismatch-specific glycosylase domain that is involved in DNA repair. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (5) uses an alternate in-frame splice site and lacks an exon in the 5' coding region, compared to variant 1. The encoded isoform (5) is shorter, compared to isoform 1.