

## Product datasheet for **SC127173**

### **MBD4 (NM\_003925) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MBD4 (NM_003925) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBD4
Synonyms:	MED1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003925, the custom clone sequence may differ by one or more nucleotides

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ATGGGCACGACTGGGCTGGAGAGTCTGAGTCTGGGGGACCGGGAGCTGCCCCACCGTCACCTCTAGTG
AGCGCCTAGTCCCAGACCCGCCAATGACCTCCGCAAAGAAGATGTTGCTATGGAATTGGAAGAGTGGG
AGAAGATGAGGAACAAATGATGATAAAAAGAAGCAGTGAATGTAATCCCTTGCTACAAGAACCCATCGT
TCTGCTCAGTTTGGTGCTACTGCAGGAACAGAATGCCGTAAGTCTGTCCATGTGGATGGGAAAGAGTTG
TGAAGCAAAGGTTATTTGGGAAGACAGCAGGAAGATTTGATGTGTACTTTATCAGCCACAAAGACTGAA
GTTGAGATCCAAAAGTTCACTTGCTAATTATCTTCACAAAAATGGAGAGACTTCTCTTAAGCCAGAAGAT
TTTGATTTTACTGTACTTTCTAAAAGGGGTATCAAGTCAAGATATAAAGACTGCAGCATGGCAGCCCTGA
CATCCCATCTACAAAACCAAAGTAAACAATTCAACTGGAACCTCAGGACCCGAAGCAAGTCAAAAAAGGA
TGTGTTTATGCCCAAGTAGTAGTTTCAAGTTGCAGGAGAGCAGAGGACTCTCTAAGTTTACTTCCACT
CATTTGCTTTTGAAGAAGATGAGGGTGTGATGATGTTAACTTCAGAAAGGTTAGAAAGCCCAAAGGAA
AGGTGACTATTTTGAAGGAATCCCAATTAAGAAAACAAAAAGGATGTAGGAAGAGCTGTTTCAAGTTT
TGTTCAAAGTGATAGCAAAGAGAAATCTGTGTGTAATAAAGCAGATGCTGAAAGTGAACCTGTTGCACAA
AAAAGTCAGCTTGATAGAACTGTCTGCATTTCTGATGCTGGAGCATGTGGTGAGACCCCTCAGTGTACCA
GTGAAGAAAACAGCCTTGTAATAAAAAAAGAAAGATCATTGAGTTCAGGATCAAATTTTTGTTCTGAACA
AAAAACTTCTGGCATCATAAACAATTTTGTTCAGCCAAAGACTCAGAACACAACGAGAAGTATGAGGAT
ACCTTTTTAGAACTCTGAAGAAATCGGAACAAAAGTAGAAGTTGTGGAAAGGAAAGAACATTTGCATACTG
ACATTTTAAAACGTGGCTCTGAAATGGACAACAACCTGCTCACCACCAGGAAAGACTTCACTGGTGAGAA
AATATTTCAAGAAGATACCATCCCACGAACACAGATAGAAAGAAGGAAAACAAGCCTGTATTTTCCAGC
AAATATAACAAAAGAGCTTTAGCCCCCAGCAGCTAAAGCCTTAAAGAAATGGACACCTCTCGTCCAC
CTTTTAATCTCGTTCAAGAAACACTTTTTTCATGATCCATGGAAGCTTCTCATCGTACTATATTTCTCAA
TCGGACCTCAGGCAAAATGGCAATACCTGTGCTTTGGAAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTA
GCAAGAACCGCAGACTGGAGAGATGTGTGAGAACTTCTTAAACCTCTTGGTCTCTACGATCTTCGGGCAA
AAACCATTGTCAAGTTCTCAGATGAATACCTGACAAAGCAGTGAAGTATCCAATTGAGCTTCATGGGAT
TGGTAAATATGGCAACGACTCTTACCGAATTTTTGTGTCAATGAGTGAAGCAGGTGCACCCTGAAGAC
CACAAATTAATAAATATCATGACTGGCTTTGGGAAAATCATGAAAAATTAAGTCTATCTTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003925 unedited

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TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGAGCTGAAGAGGT
TTCACATCTTACTCCGCCCCACACCCTGGGCGTTGCGGCGCTGGGCTCGTTGCTGCAGCC
GGACCCCTGCTCGATGGGCACGACTGGGCTGGAGAGTCTGAGTCTGGGGGACCGGGAGCT
GCCCCACCGTCACCTCTAGTGAGCGCCTAGTCCCAGACCCGCCAATGACCTCCGCAAA
GAAGATGTTGCTATGGAATTGGAAGAGTGGGAGAAGATGAGGAACAAATGATGATAAAA
AGAAGCAGTGAATGTAATCCCTTGCTACAAGAACCCATCCTTCTGCTCAGTTTGGTGCT
ACTGCAGGAACAGAATGCCCCCAAGGACTGAAGTTCAGATCCAAAAGTTCACTTGCTA
ATTATCTTCACAAAAATGGAGAGACTTCTCTTAAAGCCAGAAGATTTTGATTTTACTGTAC
TTTCTAAAAGGGGTATCAAGTCAAGATATAAAGACTGCAGCATGGCAGCCCTGACATCCC
ATCTACAAAACCAAAGTAAACAATTCAACTGGAACCTCAGGACCCGAAGCAAGTGCAAAA
AGGATGTGTTTATGCCGCAAGTAGTAGTTTCAAGTTCAGAGTTCAGGAGAGCAGAGGACTCTCA
ACTTTACTTCCACTCATTTGCTTTTGAAGAAGATGAGGGTGTGATGATGTTAACTTCA
GAAAGTTAGAAAGCCCAAAGGAAGTGACTATNTTGAAGGNNATCCNANTAAGANACTAA
AAAAGATGTAGGAAGACTGTTCAAGTTTGTNTCAAAGTATAGCAAAGAGAATCTGTGTG
NTATAAAGCAGATGCTGNAAGTGAACCCCTGTGCACAAAAAATCAGCTTGATAGAAGTGTG
TGCATTTCT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003925 unedited GGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTGTCAAATAATAATTTATT TTAAAAAATCTCAAACATGTTCAAACACATTAGTAGCAAAGATCCACCATTGGCACA CACATTAAGAAAGCACACACACTAGGCTTCTAGTTGGGCTAATTAATACTCTATGGCTG GAAAGGTGGTTGGTTGTACTTAATTAAGCTTTTTGAAGTGCAAAGCTATGCATAACAGA TGAGCTGAAAGCTGCAGAGTTAAGATAGACTTAATTTTTCATGATTTCCCAAAGCCA GTCATGATATTTAATTTGTGGTCTTCAGGGTGCACCTGCTCCACTCATTGACACA AAAAATTCGGTAAGAGTCGTTGCCATATTACCAATCCCATGAAGCTCAATTGGATACTT CCTACTGCTTTGTAGGTATTCATCTGAGAACTTGACAATGGTTTTTGCCCGAAGATCGTA GAGACCAAGAGGTTAAGAAGTTCTGACACATCTCTCCAGTCTGCGGTTCTTGCTACCTC AGCTGAAGGATACTTCTCCAGAACTTCCAAAGCACAGGATTGCCATTTTGCCTGAGGT CCGATTGAGAAATATAGTAGCGATGAGAAGCTTCCATGGATCATGAAAAAGTGTTTCTTG AACGAGATTAAGGTGACCGANGAGGTGCCATTTCTTAAAGGCTTTACGTCGTGGGGG GCTAAGAGCTTCTTGTATATTTGCTGGAAAAACANGCTNGNTTTCCTTCTTCTATC TGNGNTCGNGGGATGGGTATCTCAGTGAAGTCTTCTCTGGNTGGTGAGGCAGTGTGCCA TTTCAGACCCACGTTTAAATGTCATATGCAATGTCTTTCTTTCCACTCTACTTTTGT TCGATTTCTCAGATCTAAAGGATCCTCATACTCTCGTTGGTTCTGAGCCTTTGCTGACA AAATT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003925
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_003925.1</a> , <a href="#">NP_003916.1</a>
<b>RefSeq Size:</b>	2470 bp
<b>RefSeq ORF:</b>	1743 bp
<b>Locus ID:</b>	8930
<b>UniProt ID:</b>	<a href="#">O95243</a>
<b>Cytogenetics:</b>	3q21.3
<b>Domains:</b>	MBD

**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair

**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 (1) encodes the longest isoform (1).