

Product datasheet for **RC234391**

MBD4 (NM_001276272) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MBD4 (NM_001276272) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MBD4 |
| Synonyms: | MED1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC234391 representing NM_001276272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCACGACTGGGCTGGAGAGTCTGAGTCTGGGGACCGCGGAGCTGCCCCACCGTCACTCTAGTG
 AGCGCCTAGTCCCAGACCCGCCGAATGACTCCGCAAAGAAGATGTTGCTATGGAATTGGAAAGAGTGGG
 AGAAGATGAGGAACAAATGATGATAAAAAGAAGCAGTGAATGTAATCCCTTGCTACAAGAACCATCGCT
 TCTGCTCAGTTTGGTGTACTGCAGGAACAGAATGCCGTAAGTCTGTCCCATGTGGATGGGAAAGAGTTG
 TGAAGCAAAGGTTATTTGGGAAGACAGCAGGAAGATTTGATGTGTACTTTATCAGCCCACAAGGACTGAA
 GTTCAGATCCAAAAGTTCACTTGCTAATTATCTTCACAAAAATGGAGAGACTTCTCTAAGCCAGAAGAT
 TTTGATTTACTGTACTTTCTAAAAGGGGTATCAAGTCAAGATATAAAGACTGCAGCATGGCAGCCCTGA
 CATCCCATCTACAAAACCAAAGTAACAATCAAAGTCAAGCTCAGGACCCGAAGCAAGTCAAAAAGGA
 TGTGTTTATGCCCGCAAGTAGTAGTTTCAAGTTGCAGGAGAGCAGAGGACTCTCTAACTTTACTTCCACT
 CATTTGCTTTTGAAGAAGATGAGGGTGTGTGATGTTAACTTCAGAAAAGGTTAGAAAAGCCAAAAGGAA
 AGGTGACTATTTTGAAGAAGTCCCAATTAAGAAAATAAAAAGGATGTAGGAAGAGCTGTTCAAGTTT
 TGTTCAAAGTGATAGCAAAGAGAATCTGTGTGTAATAAAGCAGATGCTGAAAGTGAACCTGTTGCACAA
 AAAAGTCAGCTTGATAGAAGTGTCTGCATTTCTGATGCTGGAGCATGTGGTGAGACCCCTCAGTGTGACCA
 GTGAAGAAAACAGCCTTGTAATAAAAAAGAAAGATCATTGAGTTCAGGATCAAATTTTTGTTCTGAACA
 AAAAATCTTGGCATCATAAACAAATTTGTTTCAAGCAAGACTCAGAACACAACGAGAAGTATGAGGAT
 ACCTTTTTAGAATCTGAAGAAATCGGAACAAAAGTAGAAGTTGTGGAAAGGAAAGAACATTTGCATACTG
 ACATTTTTAAAACGTGGCTCTGAAATGGACAACAAGTCTCACCACCAAGGAAAGACTTCACTGGTGGGAA
 AATATTTCAAGAAGATACCATCCACGAAACACAGATAGAAAAGAAGGAAAACAAGCCTGTATTTTTCCAGC
 AAATATAACAAAAGAGCTCTTAGCCCCCAGCAGTAAAGCCTTTAAGAAATGGACACCTCCTCGGTACAC
 CTTTTAATCTCGTTCAAGAAACACTTTTTCATGATCCATGGAAGCTTCTCATCGCTACTATATTTCTCAA
 TCGGACCTCAGGCAAAATGGCAATACCTGTGCTTTGGAAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTA
 GCAAGAACCGCAGACTGGAGAGATGTGTCAGAACTTCTTAAACCTCTTGGTCTCTACGATCTTCGGGCAA
 AAACCATGTCAAGTTCTCAGATGAATACCTGACAAAGCAGTGAAGTATCCAATTGAGCTTCATGGGAT
 TGGTGCACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234391 representing NM_001276272
 Red=Cloning site Green=Tags(s)

MGTTGLESLSLGDRGAAPTVTSSERLVPDPNDLRKEDVAMELERVGEDEEQMMIKRSSECNPLLQEP
 SAQFGATAGTECRKSVPCGWVERVVKQRLFGKTAGRFDVYFIS PQGLKFRSKSSLANYLHKNGETSLKPED
 FDFTVLSKRGIKSRYKDCSMAAL TSHLQNSNNSNWNLRTRSKCKKDVFMPPSSSELQESRGLSNFTST
 HLLKKEDEGVDDVNFVRKPKGKVTILKGIPIKKTGCRKSCSGFVQSDSKRESVCNKADAESPEVAQ
 KSQLDRTVCISDAGACGETLSVTSEENSLVKKKERSLSSGSNFCSEQKTSGIINKFCSAKDSEHNEYED
 TFLSEEEIGTKVEVVERKEHLHTDILKRGSEMDNNCSPTKDFTEKIFQEDTIPRTQIERRKTSLYFSS
 KYNKEALSPRRKAFKKWTPRPFNLVQETLFHDPWKLIIATIFLNRTSGKMAIPVLWKFLEKYP
 SAEVARTADWRDVSSELLKPLGLYDLRAKTIVKFSDEYLTQWKYPIELHIGIGAP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001276272

ORF Size: 1620 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001276272.2](#)

RefSeq Size: 2607 bp

RefSeq ORF: 1623 bp

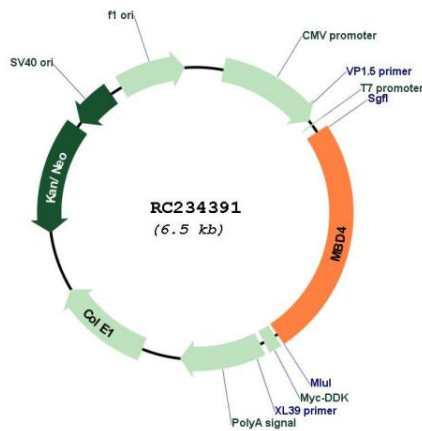
Locus ID: 8930

UniProt ID: [O95243](#)

Cytogenetics: 3q21.3
Protein Families: Druggable Genome
Protein Pathways: Base excision repair
MW: 61.4 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]

Product images:



Circular map for RC234391