

Product datasheet for **RC234373**

MBD1 (NM_001204151) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_001204151) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MBD1
Synonyms:	CXXC3; PCM1; RFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234373 representing NM_001204151
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGCCCTGGCTGGAAGCGCCGCAAGTCTTTCGAAGT
 CAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAAGT
 TGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACCTCTTCGACTTCAAACAAGGCATCTTGTGC
 TATCCAGCCCCAAGGCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCAGCCA
 AGACTCGAAACGTCAGGTTGGACCCAGAGTGGTGGAGTTCAGGAAGGAGGCCCGAGGGATGAGACCAA
 GGCTGACACTGACACAGCCCCAGCTTCATTCCCTGCTCCTGGGTGCTGTGAGAACTGTGGAATCAGCTTC
 TCAGGGGATGGCACCCAAAGGCAGCGGCTCAAACGTTGTCAAAGACTGTCGAGCACAGAGAATTGCCT
 TCAACCGGAACAGAGAATGTTAAGCGTGTGGGCTGTGGGAGTGTGCAGCCTGCCAGGTAACAGAAGA
 CTGTGGGGCTGTCCACCTGCCTCCTGCAGCTGCCCCATGATGTGGCATCGGGGCTGTTCTGCAAGTGT
 GAACGGAGACGCTGCCTCCGATTGTGGAAGGAGCCGAGGGTGTGGAGTATGCCGGGGCTGTGAGACCC
 AAGAGGATTGTGGCCATTGCCCATCTGCCTTCGCCCTCCCCGCCCTGGTCTCAGGCGCCAGTGGAAATG
 TGTCCAGCGACGTTGCCTACGGGGTAAACATGCCCGCCGCAAGGGAGGCTGTGACTCCAAGATGGCTGCC
 AGGCGGCGCCCGGAGCCAGCCACTGCCTCCACCACCCCATCACAGTCCCAGAGCCACAGAGCCGC
 AGCCCTACACGAACCGCCGCGCAGAACCAGTGCAGGCGCTGTGCAGCCTGCCTACGGCGGATGGACTG
 TGGCCGCTGCGACTTCTGCTGCGACAAGCCAAATTCGGGGCAGCAACCAGAAGCGCCAGAAGTGTGCT
 TGGCCCAATGCCTGCAGTTGCCATGAAGCGGCTGCTGCCAGTGTCTGGTCTGAGTCTGAGGATGGGG
 CAGGATCGCCCCACCTTACCGTCTCGAAAGAGGCCAGCTCTGCCCGACGGCACCATCTTGGCCCTAC
 CTTGAAGCCACCTTGGCTACACGCACAGCCCAACCAGACCATACCCAGGCTCCAACGAAGCAGGAAGCA
 GGTGGTGGCTTTGTGCTGCCCGCCTGGCACTGACCTTGTGTTTTACGGGAAGGCGCAAGCAGTCTGT
 TGCAGGTGCCGGGCCCTGTTGCAGCTTCCACAGAAGCCCTGTTGCAGGCAGTAGACCCAGGCCTGCCTTC
 TGTGAAGCAAGAGCCACCTGACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCAAATTG
 GCCCCAGAGGAAGAGGCAGGAGGGGCTGGCACACCCGTGATCACGGAGATTTTCAGCCTGGGTGGAACCC
 GCTTCCGAGATACAGCAGTCTGGTTGCCAAGTCCAAAGACCTTAAAAACCTGGAGCTAGAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234373 representing NM_001204151
 Red=Cloning site Green=Tags(s)

MAEDWLDPCALGPGWKRREVFRKSGATCGRSDTYYSPTGDRIRSKVELTRYLGPACDLTLDFKQGILC
 YPAPKAHPVAVASKRKRKPSRPAKTRKRQVGPQSGEVRKEAPRDETKADTDAPASFPAPGCCENGISF
 SGDGTQRQRLKTLCKDCRAQRIAFNREQRMFKRVGCGEACQVTEDCGACSTCLLQLPHDVASGLFCKC
 ERRRCLRIVERSRGCVCRCQTQEDCGHPICLRPPRPLRRQWKCVQRRCLRGKHARRKGGCDSKMAA
 RRRPGAQPLPPPPSQSPEPTEPQPYTNRQRNRCGACAACLRMDCGRCDFCCDKPKFGGSNQKRQKCR
 WRQCLQFAMKRLLPVWSESEDGAGSPPYRRRKRPSARRHHLGPTLKPTRLATRTAQPDHTQAPTKQEA
 GGGFVLPPTGDLVFLREGASSPVQVPGVAASTEALLQAVDPGLPSVKQEPDPEEDKEENKDDASAKL
 APEEEAGGAGTPVITEIFSLGGTRFRDVAWLPRSKDLKPKGARKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204151

ORF Size: 1608 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_001204151.3](#)

RefSeq Size: 1668 bp

RefSeq ORF: 1611 bp

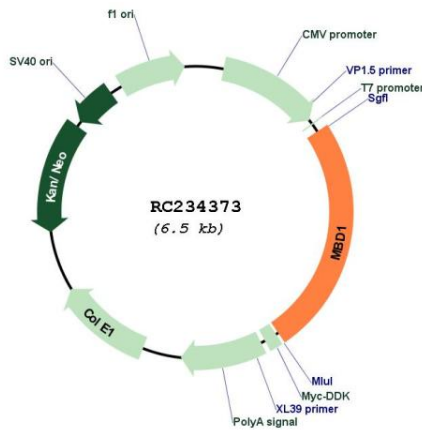
Locus ID: 4152

UniProt ID: [Q9UIS9](#)

Cytogenetics: 18q21.1
Protein Families: Druggable Genome, Transcription Factors
MW: 59.6 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 multiple domains: MBD at the N-terminus that functions both in binding to methylated DNA and in protein interactions; several CXXC-type zinc finger domains that mediate binding to non-methylated CpG dinucleotides; transcriptional repression domain (TRD) at the C-terminus that is involved in transcription repression and in protein interactions. Numerous alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC234373