

Product datasheet for **RC234603**

MBD1 (NM_001204138) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MBD1 (NM_001204138) 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:

>RC234603 representing NM_001204138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGAGGACTGGCTGGACTGCCCGCCCTGGCCCTGGCTGGAAGCGCCGCAAGTCTTTCGAAGT
 CAGGGGCCACCTGTGGACGCTCAGACACCTATTACCAGAGCCCCACAGGAGACAGGATCCGAAGCAAAGT
 TGAGCTGACTCGATACCTGGGCCCTGCGTGTGATCTCACCTCTTCGACTTCAAACAAGGCATCTTGTGC
 TATCCAGCCCCAAGGCCATCCCGTGGCGGTTGCCAGCAAGAAGCGAAAGAAGCCTTCAAGGCCAGCCA
 AGACTCGAAACGTCAAGTTGGACCCAGAGTGGTGGAGTCAAGGAGGAGGCCCCGAGGGATGAGACCAA
 GGCTGACACTGACACAGCCCCAGCTTCATTCCCTGCTCCTGGGTGCTGTGAGAACTGTGGAATCAGTTC
 TCAGGGATGGCACCCAAAGGCAGCGGCTCAAACGTTGTCAAAGACTGTCGAGCACAGAGAATTGCCT
 TCAACCGGAACAGAGAATGTTAAGCGTGTGGGCTGTGGGAGTGTGCAGCCTGCCAGGTAACAGAAGA
 CTGTGGGGCTGCTCCACTGCCTCCTGCAGCTGCCCCATGATGTGGCATCGGGGCTGTTCTGCAAGTGT
 GAACGGAGACGCTGCCTCCGATTGTGGAAGGAGCCGAGGGTGTGGAGTATGCCGGGGCTGTGAGACCC
 AAGAGGATTGTGGCCATTGCCCATCTGCCTTCGCCCTCCCCGCCCTGGTCTCAGGCGCCAGTGGAAATG
 TGTCCAGCGACGTTGCCTACGGCACCTTGTCAACCGCTGCGTCGCCGTCATCAGAGATGTGAGCGACGC
 ACTCCCCGGCTGTGGCTCCCCAACTGGTAAACATGCCCGCCGAAGGGAGGCTGTGACTCCAAGATGG
 CTGCCAGGCGGCGCCCGGAGCCAGCCACTGCCTCCACCACCCCATCACAGTCCCAGAGCCACAGA
 GCCGCACCCAGAGCCCTGGCCCCCTGCCACCTGCCAGTTCATCTATTACTGTGTAGACGAGGACGAG
 CTACAGCCCTACCGAACCGCCGAGAACCGCAAGTGCAGGCGCTGTGCAGCCTGCCTACGGCGGATGG
 ACTGTGGCCGCTGCGACTTCTGCTGCGACAAGCCAAATTCGGGGGCAGCAACCAGAAGCCAGAAGTGG
 TCGTTGGCGCAATGCCTGCAGTTGCCATGCGGCTGCTGCCAGTGTCTGGTCAGAGTCTGAGGATGGG
 GCAGGATCGCCCCACCTTACCGTCTGCAAAGAGGCCAGCTCTGCCCGACGGCACCATCTTGGCCCTA
 CCTTGAAGCCACCTTGGCTACACGCACAGCCAAACCAGACCATACCCAGGCTCCAACGAAGCAGGAAGC
 AGGTGGTGGCTTGTGCTGCCCCGCTGGCACTGACCTTGTGTTTTACGGGAAGGCGCAAGCAGTCTCT
 GTGCAGGTGCCGGCCCTGTTGCAGCTTCCACAGAAGCCCTGTTGCAGGAGGCCAGTGTCTGGCCTGA
 GTTGGGTGTGGCCTTACCCAGGTGAAGCAAGAGAAGGCGGATACCCAGGACGAGTGGACACCAGGCAC
 AGCTGTCCTGACTTCTCCGTATTGGTGCCTGGCTGCCCTAGCAAGGCAGTAGACCCAGGCTGCCTTCT
 GTGAAGCAAGAGCCACTGACCCAGAGGAGGACAAGGAGGAGAACAAGGATGATTCTGCCTCAAATTGG
 CCCAGAGGAAGAGGACGAGGGGCTGGCACACCCGTGATCACGGAGATTTTCAGCTGGGTGGAACCCG
 CTTCAGAGATACAGCAGTCTGGTTGCCAAGGTCCAAGACCTTAAAAACCTGGAGCTAGAAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234603 representing NM_001204138
 Red=Cloning site Green=Tags(s)

MAEDWLDCPALGPGWKRREVFRKSGATCGRSDTYYSPTGDRIRSKVELTRYLGPACDLTLDFKQGI
 YPAPKAHPVAVASKRRKPSRPAKTRKRQVGPQSGEVRKEAPRDETKADTDAPASFPAPGCCENC
 ISFSGDGTQRQLKTLCKDCRAQRIAFNREQRMFKRVGCGEACQVTEDCGACSTCLLQLPHDVASGL
 FCKERRRCLRIVERSRGGVCRGCTQEDCGHCPICLRPPRPLRRQWKCVQRRCLRHLAHLRRRHQRC
 QRRTPLAVAPPTGKHARRKGGCDKMAARRRPGAQPLPPPPPSQSPEPTEPHPRALAPSPPAEF
 IYYCVDEDELQPYTNRRQNRKCGACAACLRMDCGRCDFCCDKPKFGGSNQKRQKCRWRQCLQF
 AMRLLPSVWSESEDGAGSPPYRRRKRPSARRHHLGPTLKPTLATRTAQPDPHTQAPTKQEA
 GGFVLPVPPGTDLVFLREGASSPVQVPGPVAASTEALLQEAQCSGLSWVVALPQVKQEKADTQ
 DEWTPGAVLTSPLVPGCPSKAVDPGLPSVKQEPDPEDKEENKDDASKLAPEEEAGGAGTPV
 ITEIFSLGGTRFRDТАVWLPRSKDLKKPGARKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204138

ORF Size: 1887 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_001204138.2](#)

RefSeq Size: 2793 bp

RefSeq ORF: 1890 bp

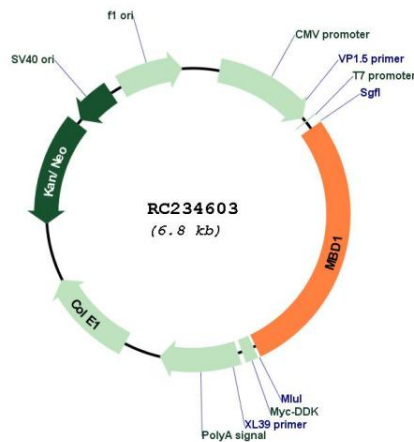
Locus ID: 4152

UniProt ID: [Q9UIS9](#)

Cytogenetics: 18q21.1
Protein Families: Druggable Genome, Transcription Factors
MW: 69.9 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 RC234603