

## **MBD3 cDNA**

Catalog Number: ATGD0298

### **PRODUCT INFORMATION**

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**Catalog number**

ATGD0298

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_003917.1

**Alternative Names**

**mRNA Refseq**

NM\_003926.5

**OMIM**

603573

**Chromosome location**

19p13.3

### **PRODUCT SPECIFICATION**

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

876bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian

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development. This gene belongs to a family of nuclear proteins which are characterized by the presence of a methyl-CpG binding domain (MBD). The encoded protein is a subunit of the NuRD, a multisubunit complex containing nucleosome remodeling and histone deacetylase activities. Unlike the other family members, the encoded protein is not capable of binding to methylated DNA. The protein mediates the association of metastasis-associated protein 2 with the core histone deacetylase complex. Alternative splicing results in multiple transcript variants of this gene.

### DATA

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#### Sequence nucleotides

```
ATGGAGCGGAAGAGGTGGGAGTGCCCGGCGCTCCCGCAGGGCTGGGAGAGGGAAGAAGTGCCAGAAAGGTCGGGGGCTG
TCGGCCGGCCACAGGGATGTCTTTTACTATAGCCCGAGCGGGAAGAAGTTCCCGCAGCAAGCCGCAGCTGGCGCGCTACCT
GGGCGGCTCCATGGACCTGAGCACCTTCGACTTCCGCACGGGCAAGATGCTGATGAGCAAGATGAACAAGAGCCGCCAGC
GCGTGCGCTACGACTCCTCCAACCAGGTCAAGGGCAAGCCCGACCTGAACACGGCGCTGCCCGTGCGCCAGACGGCGTCC
ATCTTCAAGCAGCCGGTGACCAAGATTACCAACCACCCAGCAACAAGGTCAAGAGCGACCCGCAGAAGGCGGTGGACCA
GCCGCGCCAGCTCTTCTGGGAGAAGAAGCTGAGCGGCCTGAACGCCTTCGACATTGCTGAGGAGCTGGTCAAGACCATGG
ACCTCCCCAAGGGCCTGCAGGGGGTGGGACCTGGCTGCACGGATGAGACGCTGCTGTCGGCCATCGCCAGCGCCCTGCA
CACTAGCACCATGCCATCACGGGACAGCTCTCGGCCCGCGTGGAGAAGAACCCCGGCGTATGGCTCAACACCACGCAGC
CCCTGTGCAAAGCCTTCATGGTGACCGACGAGGACATCAGGAAGCAGGAAGAGCTGGTGCAGCAGGTGCGGAAGCGGCT
GGAGGAGGCGCTGATGGCCGACATGCTGGCGCACGTGGAGGAGCTGGCCCGTGACGGGGAGGCGCCGCTGGACAAGGC
CTGCGCTGAGGACGACGACGAGGAAGACGAGGAGGAGGAGGAGGAGGAGGCCCGACCCGGACCCGGAGATGGAGCACGT
CTAG
```

#### Transaction Sequence

```
MERKRWECPA LPQWEREEV PRRSGLSAGH RDVFYSPSG KKFRSKPQLA RYLGGSM DLS TDFRTGKML
MSKMNKSQR VRYDSSNQVK GKPDNLNLP VRQTASIFKQ PVTKITNHP NKKVSDPQKA VDQPRQLFWE KKL SGLNAFD
IAEELVK TMD LPKGLQGVGP GCTDETL LSA IASALHTSTM PITGQLSAV EKNPGVWLNT TQPLCKAFMV TDEDIRKQEE
LVQVRKRLE EALMADMLAH VEELARDGEA PLDKACAEDD DEEDEEEEE EPDPPEMEH V
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