

Product datasheet for RC207511

MBD2 (NM_003927) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MBD2 (NM_003927) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MBD2
Synonyms: DMTase; NY-CO-41
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207511 representing NM_003927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCGCGCGCACCCGGGGGAGGCCGCTGCTGCCCGGAGCAGGAGGAGGGGAGAGTGCGGCGGGCGCA
 GCGGCGCTGGCGGCGACTCCGCCATAGAGCAGGGGGCCAGGGCAGCGCGCTCGCCCCGTCCCCGGTGAG
 CGGCGTGCGCAGGAAGGCGCTCGGGCGGCGGCCGTGGCCGGGGCGGTGGAAGCAGCGGGCCGGGGC
 GCGGCGCTGTGGCCGTGGCCGGGCGGGGCCGTGGCCGGGACGGGACGGGGCCGGGGCCGGGGCC
 GCGGCCGTCCCCGAGTGCGGCGAGCGGCCTTGGCGGCGACGGCGCGGCTGCGGCGCGCGGCAGCGG
 TGCGGCGGCGCCCCCGCGGGAGCCGGTCCCTTTCCCGTCGGGGAGCGCGGGCCGGGGCCAGGGGA
 CCCCAGGGCCACGGAGAGCGGGAAGAGGATGGATTGCCCGGCCCTCCCCCGGATGGAAGAAGGAGGAAG
 TGATCCGAAAATCTGGGCTAAGTGTGGCAAGAGCGATGTCTACTACTTCAAGTGGTAAGAAGTT
 CAGAAGCAAGCCTCAGTTGGCAAGGTACCTGGGAAATACTGTTGATCTCAGCAGTTTTGACTTCAGAACT
 GGAAAGATGATGCCTAGTAAATTACAGAAGAACAACAGAGACTGCGAAACGATCCTCTCAATAAAAATA
 AGGGTAAACCAGACTTGAATAACAATTGCCAATTAGACAACAGCATCAATTTTCAAACAACCGGTAAC
 CAAAGTCACAAATCATCTAGTAATAAAGTGAAATCAGACCCACAACGAATGAATGAACAGCCACGTCAG
 CTTTTCTGGGAGAAGAGGCTACAAGGACTTAGTGATCAGATGTAAACAGAAATAAAAAACCATGG
 AACTACCCAAAGTCTTCAAGGAGTTGGTCCAGGTAGCAATGATGAGACCCTTTTATCTGCTGTTGCCAG
 TGCTTTGCACACAAGCTCTGCGCAATCACAGGCAAGTCTCCGCTGCTGTGAAAAAAGAACCTGCTGTT
 TGGCTTAACACATCTCAACCCCTCTGCAAAGCTTTTATTGTACAGATGAAGACATCAGGAAACAGGAAG
 AGCGAGTACAGCAAGTACGCAAGAAATTGGAAGAAGCACTGATGGCAGACATCTTGTGCGAGCTGCTGA
 TACAGAAGAGATGGATATTGAAATGGACAGTGGAGATGAAGCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207511 representing NM_003927
Red=Cloning site Green=Tags(s)

MRAHPGGGRCCPEQEEGESAAAGSGAGGDSAIEQGGQGSALAPSPVSGVRREGARGGGRGRGRWKQAGRG
 GGVCGRGRGRGRGRGRGRGRGRGRPPSGGSLGGDGGCGGGGSGGGAPRREPVPFPPSGSAGPGPRG
 PRATESGKRMDCPALPPGWKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNTVDLSSFDFRT
 GKMMPSKLGKQKQRLRNDPLNQNKGKPDNLNTLPIRQTASIFKQPVTKVTNHPSNKKVSDPQRMNEQPRQ
 LFWEKRLQGLSASDVTEQIIKTMELPKGLQGVGPGSNDETLLSAVASALHTSSAPITGQVSAAVEKNPAV
 WLNTSQPLCKAFIVTDEDIRKQEERVQVRKKLEEALMADILSRAADTEEMDIEMDSGDEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4390_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003927

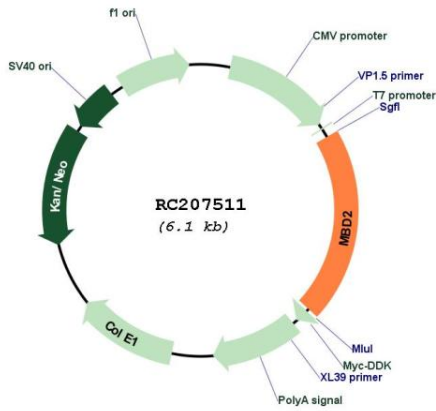
ORF Size: 1233 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_003927.5
RefSeq Size:	2584 bp
RefSeq ORF:	1236 bp
Locus ID:	8932
UniProt ID:	Q9UBB5
Cytogenetics:	18q21.2
Domains:	MBD
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW:	43.1 kDa
Gene Summary:	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that the this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC207511