

## Product datasheet for **MR208788**

### **Mbd4 (NM\_010774) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mbd4 (NM_010774) Mouse 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:**

>MR208788 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAGCCCAACCTTGGGGACAACAGAGTCCGTGGAGAGAGCCTAGTTCAGACCCGCCTTGGGATC  
 GCTGCAAGGAAGATATTGCTGTTGGACTGGGAGGAGTGGGAGAAGATGGAAGGACCTGGTGATAAGCAG  
 TGAGCGCAGCTCCCTTCTCCAAGAGCCCACTGCTTCTACTCTGTCTAGTACTACAGCGACAGAAGGCCAC  
 AAGCCTGTCCCCTGTGGATGGGAAAGAGTTGTGAAGCAAAGTTATCTGGGAAAAGTGCAGGAAAATTTG  
 ATGTATACTTTATCAGCCACAAGGATTGAAGTTCAGATCAAACGTTCACTTGTAAATATCTTCTCAA  
 AAATGGGAGACTTTTCTTAAGCCTGAAGATTTTGATTTTACTGTACTGCCGAAAGGGAGCATCAATCCC  
 GGTATAAACACCAAAGTTGGCAGCTCTGACTCCCTGCAGCCAAATGAACTGACGTTTCAAAGCAGA  
 ACCTCAAGACACGAAGCAAGTGGAAAACAGATGTGTTGCCTCTGCCAGTGGTACTTCAGAGTCGCCAGA  
 AAGCAGCGGACTGTCTAACTCTAACTCGGCTTGGCTTATTGAGAGAACATAGGGACATTCAGGATGTT  
 GACTCTGAGAAGAGGAGAAAAGTCCAAAAGAAAGGTGACTGTTTTGAAAGGAACTGCAAGTCAGAAAACCA  
 AACAAAAGTGCAGGAAGAGTCTCTTAGAGTCTACTCAAAGAAAACAGAAAAGAGCATCTGTGGTTAGAA  
 GGTGGGTGCTGATCGCGAGCTGGTGCCACAGGAAAGTCAACTCAACAGAACCCCTCTGCCCTGCAGATGCC  
 TGTGCAAGGGAGACTGTTGGCCTGGCTGGGGAAGAAAAATCACCAAGCCCAGGACTGGATCTTTGTTTCA  
 TACAAGTAACTTCTGGCACCACAAAATAATCCATTCAACTGAAGCAGCAGGTGAAGCAAATCGTGAGCA  
 GACTTTTTTAGAATCAGAGGAAATCAGATCGAAGGGAGACAGAAAGGGGGAGGCACATTTGCATACCGGT  
 GTTTTACAGGATGGCTCTGAAATGCCAGCTGCTCACAAGCCAAGAAACACTTTACTTCTGAGACATTTT  
 AAGAAGACAGCATCCCACGGACACAAGTAGAAAAAGGAAAACAAGCCTGTATTTTTCCAGCAAGTACAA  
 CAAAGAAGCTCTTAGCCCCCAAGACGCAAATCCTTCAAGAAATGGACCCCTCCTCGGTACCTTTTAAT  
 CTTGTTCAAGAAATACTTTTCCATGACCCATGGAAGCTCCTCATCGCGACTATATTTCTCAATCGGACCT  
 CAGGCAAGATGGCCATCCCTGTGCTGTGGGAGTTTCTAGAGAAGTACCCTTCAGCTGAAGTGGCCCGAGC  
 TGCCGACTGGAGGGAGCTGTCCGAGCTTCTCAAGCCTCTTGGTCTCTACGATCTCCGTGCAAAAACCATT  
 ATCAAGTTCTCAGATGAATATCTGACAAAGCAGTGGAGGTATCCGATTGAGCTTCATGGCATTGGTAAAT  
 ATGGCAACGACTCTACCGGATCTTTGTGTCAATGAATGGAAGCAGGTGCACCCGAAGACCACAAGTT  
 AAATAAATACCATGACTGGCTTTGGGAGAATCATGAAAAATTAAGTCTATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208788 protein sequence  
 Red=Cloning site Green=Tags(s)

MESPNLGDNRVRGESLVPDPWDRCKEDI AVGLGGVGEDGKDLVISSERSLLQEPTASTLSSTTATEGH  
 KPVP CGW ERVVKQRLSGKTAGKFDVYFISPQGLKFRSKRSLANYLLKNGETF LKPEDFDFTVLPKGSINP  
 GYKHQSLAAL TSLQPNETDVSKQNLKTRSKWKTDVLP LPSGTSESPESGLSNSNSACL LREHRDIQDV  
 DSEKRRKSKRKVTVLKGTASQTKQKCRKSLLESTQRNRKRASVQKVGADRELVPQESQLNRTLCPADA  
 CARETVGLAGEEKSPSPGLDLCFIQVTSGTTNKFHSTEAAGEANREQTFLESEEIRSKGDRKGEAHLHTG  
 VLQD GSEMPSCSQAKKHFTSETFQEDSIPRTQVEKRKTSLYFSSKYNKEALSPRRKSFKKWTPPRSPFN  
 LVQEILFHDPWKL LIATIFLNRTSGKMAIPVLWEFLEKYP SAEVARAADWRDVS ELLKPLGLYDLRAKTI  
 IKFSDEYLTQWRYP IELHGIGKYGNDSYRIFCVNEWKQVHPEDHKL NKYHDWLWENHEKLSLS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010774

**ORF Size:** 1665 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\\_010774.1](#), [NM\\_010774.2](#), [NP\\_034904.1](#)

**RefSeq Size:** 3584 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 17193

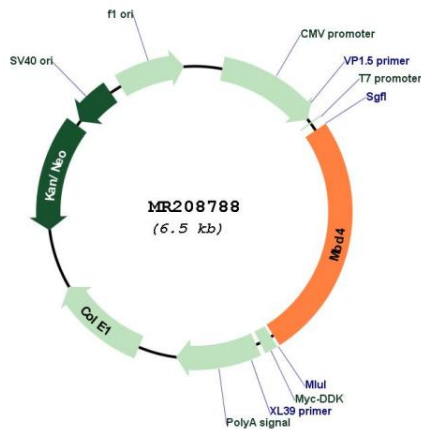
**UniProt ID:** [Q9Z2D7](#)

**Cytogenetics:** 6 53.72 cM

**MW:** 62.6 kDa

**Gene Summary:** Mismatch-specific DNA N-glycosylase involved in DNA repair. Has thymine glycosylase activity and is specific for G:T mismatches within methylated and unmethylated CpG sites. Can also remove uracil or 5-fluorouracil in G:U mismatches. Has no lyase activity. Was first identified as methyl-CpG-binding protein.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208788