

Product datasheet for **MG208788**

Mbd4 (NM_010774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mbd4 (NM_010774) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mbd4
Synonyms:	Med1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208788 representing NM_010774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCCCAACCTTGGGGACAACAGAGTCCGTGGAGAGAGCCTAGTTCAGACCCGCCTTGGGATC
 GCTGCAAGGAAGATATTGCTGTTGGACTGGGAGGAGTGGGAGAAGATGGAAAGGACCTGGTGATAAGCAG
 TGAGCGCAGCTCCCTTCTCCAAGAGCCCACTGCTTCTACTCTGTCTAGTACTACAGCGACAGAAGGCCAC
 AAGCCTGTCCCGTGTGGATGGGAAAGAGTTGTGAAGCAAAGGTTATCTGGGAAAAGTGCAGGAAAATTTG
 ATGTATACTTTATCAGCCACAAGGATTGAAGTTCAGATCAAACGTTCACTTGTAAATATCTTCTCAA
 AAATGGGAGACTTTTCTTAAGCCTGAAGATTTTGATTTTACTGTACTGCCGAAAGGGAGCATCAATCCC
 GGTATAAACACCAAAGTTTGGCAGCTCTGACTCCCTGCAGCCAAATGAACTGACGTTTCAAAGCAGA
 ACCTCAAGACACGAAGCAAGTGGAAAACAGATGTGTTGCCTCTGCCAGTGGTACTTCAGAGTCGCCAGA
 AAGCAGCGGACTGTCTAACTCTAACTCGGCTTGTCTGCTATTGAGAGAACATAGGGACATTCAGGATGTT
 GACTCTGAGAAGAGGAGAAAAGTCCAAAAGAAAGGTGACTGTTTTGAAAGGAACTGCAAGTCAGAAAACCA
 AACAAAAGTGCAGGAAGAGTCTCTTAGAGTCTACTCAAAGAAAACAGAAAAGAGCATCTGTGGTTAGAA
 GGTGGGTGCTGATCGCGAGCTGGTCCACAGGAAAGTCAACTCAACAGAACCCCTCTGCCCTGCAGATGCC
 TGTGCAAGGGAGACTGTTGGCCTGGCTGGGGAAGAAAAATCACCAAGCCCAGGACTGGATCTTTGTTTCA
 TACAAGTAACTTCTGGCACCACAAACAAATCCATTCAACTGAAGCAGCAGGTGAAGCAAATCGTGAGCA
 GACTTTTTTAGAATCAGAGGAAATCAGATCGAAGGGAGACAGAAAGGGGGAGGCACATTTGCATACCGGT
 GTTTTACAGGATGGCTCTGAAATGCCAGCTGCTCACAAGCCAAGAAACACTTTACTTCTGAGACATTTT
 AAGAAGACAGCATCCCACGGACACAAGTAGAAAAAAGGAAAAACAAGCCTGTATTTTTCCAGCAAGTACAA
 CAAAGAAGCTCTTAGCCCCCAAGACGCAATCCTTCAAGAAATGGACCCCTCCTCGGTACCTTTTAAT
 CTTGTTCAAGAAATACTTTTCCATGACCATGGAAGCTCCTCATCGCGACTATATTTCTCAATCGGACCT
 CAGGCAAGATGGCCATCCCTGTGCTGTGGGAGTTTCTAGAGAAGTACCCTTCAGCTGAAGTGGCCCGAGC
 TGCCGACTGGAGGGACGTGTCGGAGCTTCTCAAGCCTCTTGGTCTCTACGATCTCCGTGCAAAAACCATT
 ATCAAGTTCTCAGATGAATATCTGACAAAGCAGTGGAGGTATCCGATTGAGCTTCATGGCATTGGTAAAT
 ATGGCAACGACTCTACCGGATCTTTGTGTCAATGAATGGAAGCAGGTGCACCCGTAAGACCACAAGTT
 AAATAAATACCATGACTGGCTTTGGGAGAATCATGAAAAATTAAGTCTATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208788 representing NM_010774
 Red=Cloning site Green=Tags(s)

MESPNLGDNRVRGESLVPDPPWDRCKEDIAVGLGGVGEDGKDLVISSERSLLQEPTASTLSSTTATEGH
 KPVP CGWERVVKQRLSGKTAGKFDVYFISPQGLKFRSKRSLANYLLKNGETFLLKPEDFDFTVLPKGSINP
 GYKHQSLAALTSLQPNETDVSKQNLKTRSKWKTDVLPSPGTSESPSSGLSNSNSACLRLREHRDIQDV
 DSEKRRKSKRKVTVLKGTASQTKQKCRKSLLESTQRNRKRASVVQKVGADRELVPQESQLNRTLCPADA
 CARETVGLAGEEKSPSPGLDLCFIQVTSGTTNKFHSTEAAGEANREQTFLESEEIRSKGDRKGEAHLHTG
 VLQDGSEMPSCSQAKKHFTSETFQEDSIPRTQVEKRKTSLYFSSKYNKEALSPRRKSFKKWTPPRSPFN
 LVQEILFHDPWKLLIATIFLNRTSGKMAIPVLWEFLEKYPSEVARAADWRDVSSELLKPLGLYDLRAKTI
 IKFSDEYLTQWRYPIELHGIGKYGNDSYRIFCVNEWKQVHPEDHKLNKYHDWLWENHEKLSLS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010774

ORF Size: 1662 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](#), [NP_034904.1](#)

RefSeq Size: 2232 bp

RefSeq ORF: 1665 bp

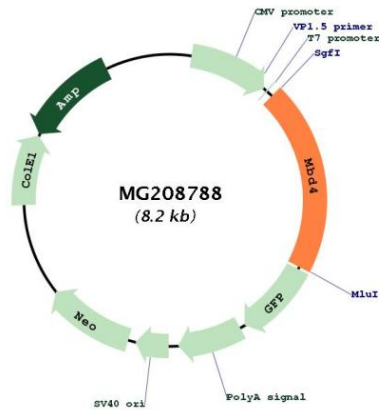
Locus ID: 17193

UniProt ID: [Q9Z2D7](#)

Cytogenetics: 6 53.72 cM

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 MG208788