

Product datasheet for **MG207745**

Mecp2 (NM_010788) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mecp2 (NM_010788) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mecp2
Synonyms:	1500041B07Rik; D630021H01Rik; Mbd5; WBP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207745 representing NM_010788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGCTGGGATGTTAGGGCTCAGGGAGGAAAAGTCAGAAGACCAGGATCTCCAGGGCCTCAGAGACA
 AGCCACTGAAGTTTAAGAAGGCCAAGAAAAGACAAGAAGGAGGACAAAGAAGGCAAGCATGAGCCACTACA
 ACCTTCAGCCACCATTCTGCAGAGCCAGCAGAGGCAAGCAAAGCAGAAAACATCAGAAAAGCTCAGGCTCT
 GCCCAGCAGTGCAGAAAGCCTCGGCTTCCCCAAACAGCGGCGCTCATTATCCGTGACCGGGGACCTA
 TGTATGATGACCCACCTTGCTGAAGTTGGACACGAAAGCTTAAACAAAGGAAGTCTGGCCGATCTGC
 TGGAAAGTATGATGATATTTGATCAATCCCCAGGGAAAAGCTTTTCGCTCTAAAGTAGAATTGATTGCA
 TACTTTGAAAAGGTGGGAGACACCTCCTGGACCCTAATGATTTTGACTTCACGGTAACTGGGAGAGGGA
 GCCCTCCAGGAGAGAGCAGAAACCACCTAAGAAGCCCAATCTCCAAAGCTCCAGGAAGTGGCAGGGG
 TCGGGGACGCCCAAAGGGAGCGGCACTGGGAGACCAAAGGCAGCAGCATCAGAAGTGTTCAGGTGAAA
 AGGGTCTGGAGAAGAGCCCTGGGAAACTTGTGTCAAGATGCCTTTCCAAGCATCGCCTGGGGGTAAAG
 GTGAGGGAGGTGGGGCTACCACATCTGCCAGGTGATGGTATCAACCGCCTGGCAGAAAAGCGAAAAGC
 TGAAGCTGACCCAGGCCATTCTAAGAAACGGGTAGAAAAGCCTGGGAGTGTGGTGGCAGCTGCTGCA
 GCTGAGGCCAAAAAGAAAGCCGTGAAGGAGTCTTCCATACGGTCTGTGCATGAGACTGTGCTCCCATCA
 AGAAGCGCAAGACCCGGGAGACGGTCAAGGAGTCAAGGAAGTGGTGAAGCCCTGCTGGTGTCCAC
 CCTTGGTGAAGAAAGCGGAAGGACTGAAGACCTGCAAGAGCCCTGGGCGTAAAAGCAAGGAGAGCAGC
 CCCAAGGGGCGCAGCAGCAGTGCCTCCTCCCACCTAAGAAGGAGCACCATCATCACCACCATCACTCAG
 AGTCCACAAAGGCCCCCATGCCACTGCTCCCACCCCACCTGAGCCTGAGAGCTGAGAGACCC
 CATCAGCCCCCTGAGCCTCAGGACTTGAGCAGCAGCATCTGCAAGAAGAGAAGATGCCCGAGGAGGC
 TCACTGAAAGCGATGGCTGCCCAAGGAGCCAGCTAAGACTCAGCCTATGGTCGCCACCACTACCACAG
 TTGCAGAAAAGTACAAACACCGAGGGGAGGAGAGCGCAAAGACATTGTTTCATCTTCCATGCCAAGGCC
 AAACAGAGAGGAGCCTGTGGACAGCCGGACGCCCTGACCGAGAGAGTTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207745 representing NM_010788
 Red=Cloning site Green=Tags(s)

MVAGMLGLREEKSEDQDLQGLRDKPLKFKKAKKDKKEDKEGKHEPLQPSAHHSAEPAEAGKAETSESSGS
 APAVPEASAPKQRRSIIIRDRGPMYDDPTLPEGWTRKLLKQRKSGRSAGKYDVYVLPQGGKAFRSKVELIA
 YFEKVGDTSLDPNDFDFVTGGRGSPSRREQPKPKPKSPKAPGTGRGRGRPKGSGTGRPKAAASEGVQVK
 RVLEKSPGKLVVKMPFQASPGGKGEVGGATTSAQVMVIKRPGRKRKAEADPQAIIPKKRGRKPGSVVAAAA
 AEAKKKAVKESSIRSVHETVLPKIKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTKSPGRKSKESS
 PKGRSSSASSPPKKEHHHHHHSESTKAPMPLLPSPPPPEPESEDPI SPPEPQDLSSSICKEEKMPRGG
 SLESDGCPKEPAKTQPMVATTTTVAEKYKHRGEGERKDIVSSMPPRNREEPVDSRTPVTERVS

TRTRPLE – GFP Tag – V

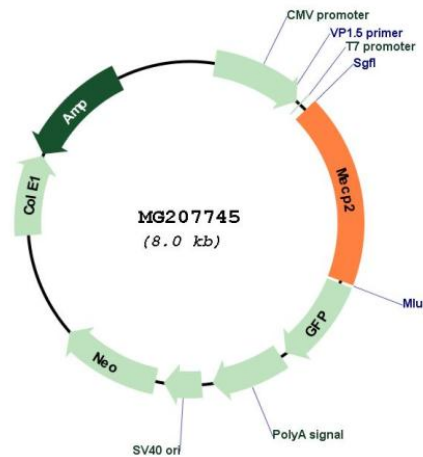
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010788

ORF Size: 1452 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_010788.4](#), [NP_034918.1](#)

RefSeq Size: 10233 bp

RefSeq ORF: 1455 bp

Locus ID: 17257

UniProt ID: [Q9Z2D6](#)

Cytogenetics: X 37.63 cM

Gene Summary: Chromosomal protein that binds to methylated DNA. It can bind specifically to a single methyl-CpG pair. It is not influenced by sequences flanking the methyl-CpGs. Mediates transcriptional repression through interaction with histone deacetylase and the corepressor SIN3. Binds both 5-methylcytosine (5mC) and 5-hydroxymethylcytosine (5hmC)-containing DNA, with a preference for 5-methylcytosine (5mC).[UniProtKB/Swiss-Prot Function]