

Product datasheet for **MG226839**

Mecp2 (NM_001081979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mecp2 (NM_001081979) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG226839 representing NM_001081979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGCGCTGCCGCCACCGCCGCCGCCGCCGCCGCCGCCGAGCGGAGGAGGAGGAGGAGCGAGGAGG
 AGAGACTGGAGGAAAAGTCAGAAGACCAGGATCTCCAGGCCCTCAGAGACAAGCCACTGAAGTTTAAAGAA
 GGCAAGAAAGACAAGAAGGAGGACAAAGAAGGCAAGCATGAGCCACTACAACCTTCAGCCCACCATTCT
 GCAGAGCCAGCAGAGGCAGGCAAAGCAGAAACATCAGAAAGCTCAGGCTCTGCCCCAGCAGTGCCAGAAG
 CCTCGGCTTCCCCAAACAGCGCGCTCCATTATCCGTGACCGGGGACCTATGTATGATACCCACCTT
 GCCTGAAGGTTGGACACGAAAGCTTAAACAAAGGAAGTCTGGCCGATCTGCTGAAAGTATGATGTATAT
 TTGATCAATCCCCAGGAAAAGCTTTTCGCTCTAAAGTAGAATTGATTGCATACTTTGAAAAGTGGGAG
 ACACCTCCTTGGACCCTAATGATTTTGACTTCACGGTAAGTGGGAGAGGGAGCCCCTCCAGGAGAGAGCA
 GAAACCACCTAAGAAGCCAAATCTCCAAAGCTCCAGGAAGTGGCAGGGGTCGGGGACGCCCAAAGGG
 AGCGGCCTGGGAGACCAAGGCAGCAGCATCAGAAGGTGTTAGGTGAAAAGGGTCTGGAGAAGAGCC
 CTGGGAAACTTGTGTCAAGATGCCTTTCCAAGCATCGCCTGGGGTAAGGGTGAGGGAGGTGGGGTAC
 CACATCTGCCAGGTCATGGTGATCAAACGCCCTGGCAGAAAAGCGAAAAGCTGAAGCTGACCCCAAGGCC
 ATTCCTAAGAAACGGGGTAGAAAGCCTGGGAGTGTGGTGGCAGCTGCTGCAGCTGAGGCCAAAAGAAAAG
 CCGTGAAGGAGTCTTCCATACGGTCTGTGCATGAGACTGTGCTCCCCATCAAGAAGCGCAAGACCCGGGA
 GACGGTCAGCATCGAGGTCAAGGAAGTGGTGAAGCCCTGCTGGTGTCCACCTTGGTGAGAAAAGCGGG
 AAGGGACTGAAGACCTGCAAGAGCCCTGGGCGTAAAAGCAAGGAGAGCAGCCCCAAGGGGCGCAGCAGCA
 GTGCCCTCTCCACCTAAGAAGGAGCACCATCATCACCACCCTACTCAGAGTCCACAAAAGCCCCAT
 GCCACTGCTCCCATCCCCACCCACCTGAGCCTGAGAGCTCTGAGGACCCCATCAGCCCCCTGAGCCT
 CAGGACTTGAGCAGCAGCATCTGCAAGAAGAGAAGATGCCCCGAGGAGGCTCACTGAAAAGCGATGGCT
 GCCCAAGGAGCCAGCTAAGACTCAGCCTATGGTCGCCACCCTACCACAGTTGCAGAAAAGTACAAACA
 CCGAGGGGAGGAGAGCGCAAAGACATTGTTTCATCTTCCATGCCAAGGCCAAACAGAGAGGAGCCTGTG
 GACAGCCGGACGCCCGTGACCGAGAGATTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226839 representing NM_001081979
 Red=Cloning site Green=Tags(s)

MAAAAATAAAAAAPSGGGGGEEERLEEKSEDQDLQGLRDKPLKFKKAKKDKKEDKEGKHEPLQPSAHS
 AEPAEAGKAETSESSGSAPAVPEASAPKQRRSIIIRDRGPMYDDPTLPEGWTRKLRKRSGRSAGKYDVY
 LINPQGFKAFRSKVELIAYFEKVGDTSLDPNDFDFVTGGRGSPSRREQPKPKPKSPKAPGTGRGRGRPKG
 SGTGRPKAAAASEGVQKRVLEKSPGKLVVKMPFQASPGGKGGGATTSQVMVIKRPGRKRKAEDPQA
 IPKKRGRKPGSVVAAAAAEAKKAVKESSIRSVHETVLPVKRKTRETVSIEVKEVVKPLLVLSTLGEKSG
 KGLKTCKSPGRKSKESSPKGRSSASSPPKKEHHHHHHHSESTKAPMLLPSPPPPEPESSEDPISPPEP
 QDLSSSICKEEMPRGGSLESDGCPKEPAKTQPMVATTTTVAEKYKHRGEGERKDIVSSMPRPNREEPV
 DSRTPVTERVS

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1180_g04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001081979

ORF Size: 1503 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_001081979.2](#)

RefSeq Size: 10152 bp

RefSeq ORF: 1506 bp

Locus ID: 17257

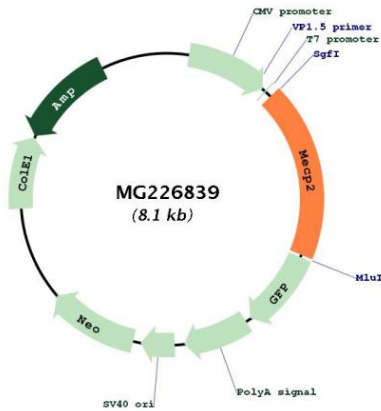
UniProt ID: [Q9Z2D6](#)

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]

Product images:



Circular map for MG226839