

Product datasheet for **MR207745**

Mecp2 (NM_010788) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mecp2 (NM_010788) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mecp2 |
| Synonyms: | 1500041B07Rik; D630021H01Rik; Mbd5; WBP10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR207745 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGCTGGGATGTTAGGGCTCAGGGAGGAAAAGTCAGAAGACCAGGATCTCCAGGGCCTCAGAGACA
 AGCCACTGAAGTTTAAGAAGGCGAAGAAAAGACAAGAAGGAGGACAAAGAAGGCAAGCATGAGCCACTACA
 ACCTTCAGCCACCATTCTGCAGAGCCAGCAGAGGCAAGCAAAGCAGAAAACATCAGAAAAGCTCAGGCTCT
 GCCCAGCAGTGCAGAAAGCCTCGGCTTCCCCAAACAGCGGCGCTCCATTATCCGTGACCGGGGACCTA
 TGTATGATGACCCACCTTGCTGAAGTTGGACACGAAAGCTTAAACAAAGGAAGTCTGGCCGATCTGC
 TGGAAAGTATGATGATATTTGATCAATCCCCAGGAAAAGCTTTTCGCTCTAAAGTAGAATTGATTGCA
 TACTTTGAAAAGGTGGGAGACACCTCCTGGACCCTAATGATTTTGACTTCACGGTAACTGGGAGAGGA
 GCCCTCCAGGAGAGAGCAGAAACCACCTAAGAAGCCCAATCTCCAAAGCTCCAGGAACTGGCAGGGG
 TCGGGGACGCCCAAAGGAGCGGCACTGGGAGACCAAAGGCAGCAGCATCAGAAGTGTTCAGGTGAAA
 AGGGTCTTGAGAAGAGCCCTGGGAAACTTGTTGTCAAGATGCCTTTCCAAGCATCGCCTGGGGGTAAAG
 GTGAGGGAGTGGGGCTACCACATCTGCCAGGTGATGGTATCAACCGCCTGGCAGAAAAGCGAAAAGC
 TGAAGCTGACCCCGAGCCATTCTAAGAAACGGGTAGAAAAGCCTGGGAGTGTGGTGGCAGCTGCTGCA
 GCTGAGGCCAAAAAGAAAGCCGTGAAGGAGTCTTCCATACGGTCTGTGCATGAGACTGTGCTCCCATCA
 AGAAGCGCAAGACCCGGGAGACGGTCAAGGAGTCAAGGAAGTGGTGAAGCCCTGCTGGTGTCCAC
 CCTTGGTGAGAAAAGCGGAAGGACTGAAGACCTGCAAGAGCCCTGGGCGTAAAAGCAAGGAGAGCAGC
 CCCAAGGGGCGCAGCAGCAGTGCCTCCTCCCACCTAAGAAGGAGCACCATCATCACCACCATCACTCAG
 AGTCCACAAAGGCCCCCATGCCACTGCTCCCACCCACCTGAGCCTGAGAGCTGAGAGCTGAGAGCC
 CATCAGCCCCCTGAGCCTCAGGACTTGAGCAGCAGCATCTGCAAAGAAGAGAAGATGCCCGAGGAGGC
 TCACTGAAAGCGATGGCTGCCCAAGGAGCCAGCTAAGACTCAGCCTATGGTCGCCACCACTACCACAG
 TTGCAGAAAAGTACAAACACCGAGGGGAGGAGAGCGCAAAGACATTGTTTCATCTTCCATGCCAAGGCC
 AAACAGAGAGGAGCCTGTGGACAGCCGGACGCCGTGACCGAGAGAGTTAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207745 protein sequence
 Red=Cloning site Green=Tags(s)

MVAGMLGLREEKSEDQDLQGLRDKPLKFKKAKKDKKEDKEGKHEPLQPSAHHSAEPAEAGKAETSESSGS
 APAVPEASASPKQRRSIIIRDRGPMYDDPTLPEGWTRKLRKRSGRSAGKYDVYLINPQKAFRSKVELIA
 YFEKVGDTSLDPNDFDFVTVGRGSPSRREQKPPKPKSPKAPGTGRGRGRPKGSGTGRPKAAAASEGVQVK
 RVLEKSPGKLVVKMPFQASPGGKGGGATTSAQVMVIKRPGRKRKAADPQAIIPKKRGRKPGSVVAAAA
 AEAKKKAVKESSIRSVHETVLP.IKKRKTRETVSIEVKEVVKPLL.VSTLGEKSGKGLTKCKSPGRKSKESS
 PKGRSSSASSPPKKEHHHHHHSESTKAPMPLLPSPPPPEPESSEDPI.SPPEPQDLSSSICKEEKMPRGG
 SLESDGCPKEPAKTQPMVATTTTVAEKYKHRGEGERKDIVSSSMRPNREEPVDSRTPVTERVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010788

ORF Size: 1455 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: 10576 bp

RefSeq ORF: 1455 bp

Locus ID: 17257

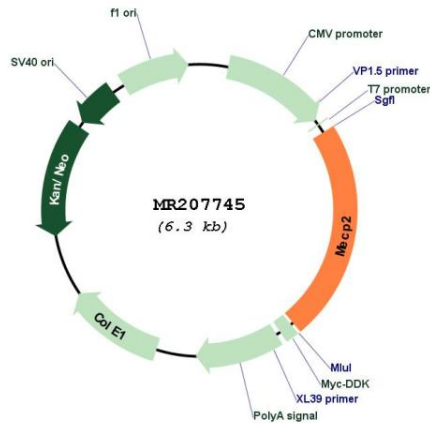
UniProt ID: [Q9Z2D6](#)

Cytogenetics: X 37.63 cM

MW: 52.3 kDa

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 MR207745