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Product datasheet for MC216635

Mecp2 (NM_010788) Mouse Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>MC216635 representing NM_010788
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGCTGGGATGTTAGGGCTCAGGGAGGAAAAGTCAGAAGACCAGGATCTCCAGGGCCTCAGAGACA
AGCCACTGAAGTTTAAGAAGGCGAAGAAAGACAAGAAGGAGGACAAAGAAGGCAAGCATGAGCCACTACA
ACCTTCAGCCCACCATTCTGCAGAGCCAGCAGAGGCAGGCAAAGCAGAAACATCAGAAAGCTCAGGCTCT
GCCCCAGCAGTGCCAGAAGCCTCGGCTTCCCCCAAACAGCGGCGCTCCATTATCCGTGACCGGGGACCTA
TGTATGATGACCCCACCTTGCCTGAAGGTTGGACACGAAAGCTTAAACAAAGGAAGTCTGGCCGATCTGC
TGGAAAGTATGATGTATATTTGATCAATCCCCAGGGAAAAGCTTTTCGCTCTAAAGTAGAATTGATTGCA
TACTTTGAAAAGGTGGGAGACACCTCCTTGGACCCTAATGATTTTGACTTCACGGTAACTGGGAGAGGGA
GCCCCTCCAGGAGAGAGCAGAAACCACCTAAGAAGCCCAAATCTCCCAAAGCTCCAGGAACTGGCAGGGG
TCGGGGACGCCCCAAAGGGAGCGGCACTGGGAGACCAAAGGCAGCAGCATCAGAAGGTGTTCAGGTGAAA
AGGGTCCTGGAGAAGAGCCCTGGGAAACTTGTTGTCAAGATGCCTTTCCAAGCATCGCCTGGGGGTAAGG
GTGAGGGAGGTGGGGCTACCACATCTGCCCAGGTCATGGTGATCAAACGCCCTGGCAGAAAGCGAAAAGC
TGAAGCTGACCCCCAGGCCATTCCTAAGAAACGGGGTAGAAAGCCTGGGAGTGTGGTGGCAGCTGCTGCA
GCTGAGGCCAAAAAGAAAGCCGTGAAGGAGTCTTCCATACGGTCTGTGCATGAGACTGTGCTCCCCATCA
AGAAGCGCAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTGGTGAAGCCCCTGCTGGTGTCCAC
CCTTGGTGAGAAAAGCGGGAAGGGACTGAAGACCTGCAAGAGCCCTGGGCGTAAAAGCAAGGAGAGCAGC
CCCAAGGGGCGCAGCAGCAGTGCCTCCTCCCCACCTAAGAAGGAGCACCATCATCACCACCATCACTCAG
AGTCCACAAAGGCCCCCATGCCACTGCTCCCATCCCCACCCCCACCTGAGCCTGAGAGCTCTGAGGACCC
CATCAGCCCCCCTGAGCCTCAGGACTTGAGCAGCAGCATCTGCAAAGAAGAGAAGATGCCCCGAGGAGGC
TCACTGGAAAGCGATGGCTGCCCCAAGGAGCCAGCTAAGACTCAGCCTATGGTCGCCACCACTACCACAG
TTGCAGAAAAGTACAAACACCGAGGGGAGGGAGAGCGCAAAGACATTGTTTCATCTTCCATGCCAAGGCC
AAACAGAGAGGAGCCTGTGGACAGCCGGACGCCCGTGACCGAGAGAGTTAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010788

Insert Size: 1455 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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
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] Transcript Variant: This variant (2, also known as beta) has an additional exon in the 5' region, which results in the use of an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.