

Product datasheet for **SC317205**

MECP2 (NM_001110792) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MECP2 (NM_001110792) Human Untagged Clone
Tag:	Tag Free
Symbol:	MECP2
Synonyms:	AUTSX3; MRX16; MRX79; MRXS13; MRXSL; PPMX; RS; RTS; RTT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001110792 edited
 AGGGCTGTGGTAAAAGCCGTCCGGAAAATGGCCGCCGCCGCCGCCGCCGCCGCCGAGCGGA
 GGAGGAGGAGGAGGCGAGGAGGAGACTGGAAGAAAAGTCAAGAACAGGACCTCCAG
 GGCCTCAAGGACAAACCCTCAAGTTTAAAAAGGTGAAGAAAGATAAGAAAGAAGAGAAA
 GAGGGCAAGCATGAGCCCGTGCAGCCATCAGCCCACCACTCTGCTGAGCCCGCAGAGGCA
 GGCAAAGCAGAGACATCAGAAGGGTCAGGCTCCGCCCCGGCTGTGCCGAAGCTTCTGCC
 TCCCCAAACAGCGGCGCTCCATCATCCGTGACCGGGGACCCATGTATGATGACCCACC
 CTGCCTGAAGGCTGGACACGGAAGCTTAAGCAAAGGAAAATCTGGCCGCTCTGCTGGGAAG
 TATGATGTGATTTGATCAATCCCAGGAAAAGCCTTTTCGCTCTAAAAGTGGAGTTGATT
 GCGTACTTCGAAAAGGTAGGCGACACATCCCTGGACCCTAATGATTTTGACTTCACGGTA
 ACTGGGAGAGGGAGCCCTCCCGCGGAGAGCAGAAACCCTAAGAAGCCCAAATCTCCC
 AAAGCTCCAGAACTGGCAGAGGCGGGGACGCCCAAAGGGAGCGGCACCACGAGACCC
 AAGGCGGCCACGTGAGAGGGTGTGCAGGTGAAAAGGGTCTGGAGAAAAGTCTGGGAAG
 CTCCTTGTCAAGATGCCTTTTCAAACCTCGCCAGGGGGCAAGGCTGAGGGGGTGGGGCC
 ACCACATCCACCCAGGTGATGGTATCAAACGCCCGGCAGGAAGCGAAAAGCTGAGGCC
 GACCCTCAGGCCATTCCAAGAAACGGGGCCGAAAGCCGGGAGTGTGGTGGCAGCCGCT
 GCCGCCGAGGCCAAAAGAAAGCCGTGAAGGAGTCTTCTATCCGATCTGTGCAGGAGACC
 GTACTCCCATCAAGAAGCGCAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTG
 GTGAAGCCCTGCTGGTGTCCACCCTCGGTGAGAAGAGCGGGAAGGACTGAAGACCTGT
 AAGAGCCCTGGGCGGAAAAGCAAGGAGAGCAGCCCAAGGGGCGCAGCAGCAGCGCTCC
 TCACCCCAAGAAGGAGCACCACCACCATCACCACCACTCAGAGTCCCCAAAGGCCCCC
 GTGCCACTGCTCCACCCTGCCCCACCTCCACTGAGCCCGAGAGCTCCGAGGACCCC
 AGAGGAGGCTCACTGGAGAGCGAGCGCTGCCCAAGGAGCCAGCTAAGACTCAGCCCGCG
 GTTGCCACCGCCGACGCGCGAGAAAAGTACAAACACCGAGGGGAGGGAGAGCGCAAA
 GACATTGTTTCATCCTCCATGCCAAGGCCAAACAGAGAGGAGCCTGTGGACAGCCGGACG
 CCCGTGACCGAGAGAGTTAGCTGACTTTACACGGAGCGGATTGCAAAGCAAACCAACAAG
 AATAAAGGCAGCTGTTGTCTTCTCTTATGGGTAGGGCTGTGACAAAGCTTCCCGATT
 AACTGAAATAAAAAATATTTTTTTTTTTTTCAGTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001110792

Insert Size: 1700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_001110792.1 , NP_001104262.1
RefSeq Size:	1734 bp
RefSeq ORF:	1497 bp
Locus ID:	4204
UniProt ID:	P51608
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
Gene Summary:	<p>DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensible in stem cells, but is essential for embryonic development. MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of cognitive disability in females. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (2), also known as MECP2B, lacks exon 2. Translation is reported to initiate in the first exon resulting in a protein isoform (2) with a distinct N-terminus. This transcript is reported to be abundant in the central nervous system (PMID: 15034579, 17171659).</p>