

# Recombinant Full Length Human MECP2 Protein, GST-tagged

Cat. No. MECP2-6126HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MECP2 full-length ORF ( NP_004983.1, 1 a.a. - 486 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	486 amino acids
<b>Description</b>	<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 mental retardation in females. [provided by RefSeq</p>
<b>Molecular Mass</b>	78.8 kDa
<b>AA Sequence</b>	MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAE PAEAGKAETSEGSGSAPAVPEASASPKQRRSIIIRDRGPMYDDPTLPEGWTRKCLKQR

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KSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRR  
 EQKPPKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVK  
 MPFQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAA  
 AAAEAKKKAVKESSIRSVQETVLPKIKRKTRETVSIEVKEVVKPLLSTLGEKSGKGL  
 KTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSESPKAPVPLLPLPPPPPE  
 PESSEDPTSPPEPQDLSSSVCKEEKMPRGGSLSDGCPKEPAKTQPAVATAATAAE  
 KYKHRGEGERKDIVSSSMRPNREEPVDSRTPVTERVS

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**  
 MECP2 methyl CpG binding protein 2 (Rett syndrome) [ Homo sapiens ]

**Official Symbol**  
 MECP2

**Synonyms**  
 MECP2; methyl CpG binding protein 2 (Rett syndrome); mental retardation, X linked 16 , mental retardation, X linked 79 , MRX16, MRX79, RTT; methyl-CpG-binding protein 2; meCp-2 protein; RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13; DKFZp686A24160;

**Gene ID**  
 4204

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mRNA Refseq	<a href="#">NM_001110792</a>
Protein Refseq	<a href="#">NP_001104262</a>
MIM	<a href="#">300005</a>
UniProt ID	<a href="#">P51608</a>

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