

Recombinant Full Length Human MECP2 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human MECP2 full-length ORF (NP_004983.1, 1 a.a. - 486 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	486 amino acids
Description	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
Molecular Mass	78.8 kDa
AA Sequence	MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAE PAEAGKAETSEGSGSAPAVPEASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRR
 EQKPPKKPKSPKAPGTGRGRGRPKGSGTTPKAATSEGVQVKRVLEKSPGKLLVK
 MPFQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAA
 AAAEAKKKAVKESSIRSVQETVLPKIKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGL
 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	NM_001110792
Protein Refseq	NP_001104262
MIM	300005
UniProt ID	P51608

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