

## Product datasheet for **TP512056**

### **Dnmt1 (NM\_010066) Mouse Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse DNA methyltransferase (cytosine-5) 1 (Dnmt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T



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Expression cDNA Clone >MR212056 representing NM\_010066  
 or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MPARTAPARVPALASPAGSLPDHVRRLKDLERDGLTEKECVREKLNLLHEFLQTEIKSQLCDLETKLHK  
 EELSEEGYLAKVKSLNLDLSLENGHTLTQKANGCPANGSRPTWRAEMADSNRSPRSRPKPRGPRRSKS  
 DSDTLVETSPSSVATRTRRQTITAHFTKGPTRKPKKEESEEGNSAESAAEERDQDKRRVVDTEGA  
 AAAVEKLEEVTAGTQLGPEEPCEQEDDNRSLRRHTRELSLRRKSKEDPDREARPETHLDEDEDGKKDKRS  
 SRPRSQRDPAAKRRPKAEPEQVAPETPEDRDEDEREEKRRKTTRKKLESHTVPVQSRSERKAAQSKSV  
 IPKINSPKCPECGQHLLDDPNLKYQQHPEDAVIDEPMQMLTSEKLSIYDSTSTWFDYEDSPMHRFTSFSVYC  
 SRGHLCPVDTGLIEKNVELYFSGCAKAIHNDENPSMEGGINGKNLGPINQWWLSGFDGGEKVLIGFSTAF  
 EYILMEPSKEYEPIFGLMQEKIYISKIVVEFLQNNPDVYEDLINKIETTVPSTINVRFTEDSLLRHA  
 QFVVSQVESYDEAKDDDETPIFLSPCMRALIHLAGVSLGQRRATRRVMGATKEKDKAPTATTTKLVYQI  
 FDTFFSEQIEKYDKEDKENAMKRRRCGVCEVCQQPECGKCKACKDMVKFGGTGRSKQACLKRRCPNLAVK  
 EADDDEEADDVSEMPSPKLLHQGKKKKQNKDRISWLGQPMKIEENRTYYQKVSIDEEMLEVGDVSVIP  
 DDSSKPLYLARVTALWEDKNGQMMFHAWFCAGTDTVLGATSDPLELFLVGEENMQLSYIHSKVKVIYK  
 APSENWAMEGGTDPETTLPGAEDGKTYFFQLWYNQEYARFESPPKTQPTEDNKHKFCLSCIRLAELRQKE  
 MPKVLQIEEVDGRVYCSSITKNGVVYRLGDSVYLPEAFTFNIVKVASPVKRPKDPVNETLYPEHYRKY  
 SDYIKGSNLDAPYRIGRIKEIHCCKKGGVNEADIKLRLYKFPENTHRSYNGSYHTDINMLYWSDE  
 EAVNFSDVQGRCTVEYGEDLLESIQDYSQGGPDRFYFLEAYNSKTKNFEDPPNHARSPGNKGGKGGKGGK  
 GKGKHQVSEPKPEAAIKLPLKRLTLDVFGCGGLSEGFHQAGISETLWAIEMWDPAAQAFRLNPGTTVF  
 TEDCNVLLKLVMAGEVTNSLGQRLPQKGDVEMLCGGPPCQGFSGMNRFNRSRTYSKFNLSLVVSLYCYDY  
 YRPRFFLENVRFVSYRRSMVLKLTLRCLVRMGYQCTFGVLQAGQYGAQTRRRRAILAAAPGEKPLPF  
 PEPLHVAFPRACQLSVVVDKFKVSNITRLSSGPFRTITVRDMSDLPEIQNGASNSEIPYNGEPLSWFQ  
 RQLRGSHYQPILRDHICKDMSPLVAARMRHIPLFPGSDWRDLPNIQVRLGDGVIAHKLQYTFHDVKNQYS  
 STGALRGVCSAEGKACDPESRQFSTLIPWCLPHTGNRHNHWAGLYGRLEWDGFFSTVTNPEPMGKQGR  
 VLHPEQHRVSVRECARSQGFPDSYRFFGNILDRHRQVGNVPPPLAKAIGLEIKLCLLSSARESASAAV  
 KAKEEAATKD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK  
**Predicted MW:** 183.6 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C after receiving vials.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_034196](#)

<b>Locus ID:</b>	13433
<b>UniProt ID:</b>	<a href="#">P13864</a> , <a href="#">Q3UHZ3</a>
<b>RefSeq Size:</b>	5367
<b>Cytogenetics:</b>	9 7.66 cM
<b>RefSeq ORF:</b>	4860
<b>Synonyms:</b>	Cxxc9; Dnmt; Dnmt1o; m.Mmul; MCMT; Met-1; Met1; MommeD; MommeD2; MTa; MTase
<b>Summary:</b>	<p>This gene encodes a methyltransferase that preferentially methylates cytosines of CpG residues in hemimethylated DNA to generate fully methylated CpG base pairs during DNA replication. This enzyme plays roles in diverse cellular processes including cell cycle regulation, DNA repair, and telomere maintenance. The encoded protein is composed of an N-terminal domain with a nuclear localization sequence and replication fork-targeting domain, a DNA-binding CXXC domain, two bromo-adjacent homology domains, and a C-terminal catalytic domain. Mouse embryonic stem cells mutant for this gene are viable, but when introduced into the germ line, cause a recessive lethal phenotype with mutant embryos displaying stunted growth and developmental defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p>