

## Product datasheet for TP522714

### Ehmt2 (NM\_145830) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Purified recombinant protein of Mouse euchromatic histone lysine N-methyltransferase 2 (Ehmt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug  
**Species:** Mouse  
**Expression Host:** HEK293T  
**Expression cDNA** >MR222714 representing NM\_145830  
**Clone or AA Sequence:** Red=Cloning site Green=Tags(s)

MRGLPRGRGLMRARGRGRAAPTGGRRGRGGGAHRGRGRPRSLLSLPRAQASWAPQLPAGLTGPPVPCPLPS  
 QGEAPAEMGALLLEKEPRGAAERVHSSLGDTPQSEETLPKANPDSLEPAGPSSPASVTVTVGDEGADTPV  
 GAASLIGDEPESLEGDGGRIVLGHATKSFSSPSKGGACPSRAKMSMTGAGKSPSPVQSLAMRLLSMPGA  
 QGAATAGPEPSPATTAQEGQPKVHRARKTMSKPSNGQPPPIPEKRPPEVQHFRMSDDMHLGKVTSDVAKR  
 RKLNSGSLSEDLGSAGGSGDIILEKGEPRPLEEWETVGDDFSLYDAYSVDERVSDSKSEVEALAEQL  
 SEEEEEEEEEEEEEEEEEEEEEDEESGNQSDRSGSSGRRKAKKKWRKDSPWVKPSRKRKRREPPRA  
 KEPRGVNGVGSSEYMEVPLGSLELPSEGLTSPNHAGVSNDTSSLETERGFEELPLCSCRMEAPKIDR  
 ISERAGHKCMATESVDGELLGCNAAILKRETMRPPSSRVALMVLCEAHRARMVKHHCCPGCGYFCTAGTFL  
 ECHPDFRVAHRFHKACVSQLNGMVFCPHCGEDASEAQEVTIPRGDGGTPPIGTAAPALPPLAHDAPGRAD  
 TSQPSARMRGHGEPRRPPCDPLADTIDSSGPSLTLPNGGCLSAVGLPPGPGREALEKALVIQESERRKKL  
 RFHPRQLYLSVKQGELQKVMLLLDNLDPNFQSDQQSKRTPLHAAAQKGSVEICHVLLQAGANINAVDKQ  
 QRTPLMEAVVNNHLEVARYMVQLGGCVYSKEEDGSTCLHHAAKIGNLEMVSLLLSTGQVDVNAQDSGGWT  
 PIIWAAEHKHIDVIRMLLTRGADVTLTDNEENICLHWASFTGSAIAEVLLNAQCDLHAVNYHGDTPLHI  
 AARESYHDCVLLFLSRGANPELRNKEGDTAWDLTPERSDVWFALQLNRKLRLGVGNRAVRTEKIIICRDVA  
 RGYENVPIPCVNGVDGEPEDYKYISENCETSTMNIDRNITHLQHCTCVDCCSSNCLCGQLSIRCWYD  
 KDGRLLQEFNKIEPPLIFECNQACSCWRSCNRVQSGIKVRLQLYRTAKMGWGVRALQTIPQGTICEY  
 VGELISDAEADVREDDSYLFDLNDKGEVYCIDARYYGNISRFINHLCDPNIIIPVRVFMHLHQDLRFPIA  
 FFSSRDIRTGEELGFDYGDRFWDIKSKYFTCQCSEKCKHSAEIALEQSRLARLDPHPELLPDLSSLLPP  
 INT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK  
**Predicted MW:** 138 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_665829</a>
<b>Locus ID:</b>	110147
<b>UniProt ID:</b>	<a href="#">Q9Z148</a>
<b>RefSeq Size:</b>	4070
<b>Cytogenetics:</b>	17 18.45 cM
<b>RefSeq ORF:</b>	3792
<b>Synonyms:</b>	Bat8; D17Ert710e; G9a; KMT1C; NG36
<b>Summary:</b>	<p>Histone methyltransferase that specifically mono- and dimethylates 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Also mediates monomethylation of 'Lys-56' of histone H3 (H3K56me1) in G1 phase, leading to promote interaction between histone H3 and PCNA and regulating DNA replication. Also weakly methylates 'Lys-27' of histone H3 (H3K27me). Also required for DNA methylation, the histone methyltransferase activity is not required for DNA methylation, suggesting that these 2 activities function independently. Probably targeted to histone H3 by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. May also methylate histone H1. In addition to the histone methyltransferase activity, also methylates non-histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Also methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12 and itself. [UniProtKB/Swiss-Prot Function]</p>