

Product datasheet for **TP508777**

Mettl16 (NM_026197) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse methyltransferase like 16 (Mettl16), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR208777 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MALSKSMHARNRYKDKPPDFAYLASKYPDFKQHIQINLNGRVSLNFKDPEAVRALTCTLLREDFGLSIDI
PLERLIPTVPLRLNYIHWVEDLIGHQSDKTTLRRGIDIGTGASCIYPLLGATLNGWYFLATEVDDMCFN
YAKKNVEQNNLSDLIKVVKVPQKTLMDALKEESEIVYDFCMCNPPFFANQLEAKGVNSRNSRPPSSV
NTGGITEIMAEGGELEFVKRIIHDSLQLKKRLRWYSCMLGKKCSLAPLKEELRIQGVPKVTFTEFCQGR
MRWALAWSFYDDVTVPSPSKRRKLEKPRKPITFVLESVMKELSLKASSLGSETAEGIVVTTWIEKIL
TDLKVQHKRIPCGRREVSLFLTAIENSWIHLRRKRRERVRQLREVPRAPEDVILALEERKSTPKELSSGQ
DVAHSPQESALCGLDVPGGEEAADGGHCLSQKLLCQEETPEATEDERDEERGGMEAMESCKGSSNGAQDG
EASEKGDRLDGAAGRYLFKCLVNIKKEAGDAVEMHWWVEGQNRDLMNQLCTYVRNQILRLVAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	62.8 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:	<u>NP_080473</u>



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Locus ID:	67493
UniProt ID:	Q9CQG2
RefSeq Size:	2718
Cytogenetics:	11 B5
RefSeq ORF:	1662
Synonyms:	2610100D03Rik; 2810013M15Rik; A830095F14Rik; AI846133; Mett10d
Summary:	<p>RNA N6-methyltransferase that methylates adenosine residues at the N(6) position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts (PubMed:29262316, PubMed:30197299). Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs) (By similarity). In contrast to the METTL3-METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure (By similarity). Plays a key role in S-adenosyl-L-methionine homeostasis by mediating N6-methylation of MAT2A mRNAs, altering splicing and/or stability of MAT2A transcripts: in presence of S-adenosyl-L-methionine, binds the 3' UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, impairing MAT2A expression (PubMed:29262316, PubMed:30197299). In S-adenosyl-L-methionine-limiting conditions, binds the 3' UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A (PubMed:29262316). In addition to mRNAs, also able to mediate N6-methylation of U6 small nuclear RNA (U6 snRNA): specifically N6-methylates adenine in position 43 of U6 snRNAs (By similarity). Also able to bind various lncRNAs (By similarity). Specifically binds the 3'-end of the MALAT1 long non-coding RNA (By similarity) (PubMed:29262316, PubMed:30197299). [UniProtKB/Swiss-Prot Function]</p>