

## Product datasheet for TP505034

### Mgme1 (NM\_028984) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitochondrial genome maintenance exonuclease 1 (Mgme1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205034 representing NM_028984 Red=Cloning site Green=Tags(s)

MKLPLTFCRLLSRLNRFVSKASPPVFSFSTFSYLCSQKKKNSYEAVDQAKYSRLVRSVLSRGPAAQTPESLF  
KEDDVLYGVPVSKHKAEEPEPQARVPQHCFPIFNEERTGKPHTDASSSPLKIPLQRNSIPSVTRILQQTMP  
PEQSSFFLERWKERMVLELGEDGFAEYTSNVFLQGKQFHKALESILSPQENLTGGEEHPQCGYIESIQHIL  
TEISGVQALESAVQHEALKYVGLLDCAVEYRGKLCVIDWKTSEKPKPLIRNTYDNPLQWAYMGAVNHDA  
HYSFQVQCGLIWAYKDGSPAHPHFMDDEELCSKYWAKWLLRLEEYTEKQKNLSAPEPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	38.4 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:	<a href="#">NP_083260</a>
Locus ID:	74528
UniProt ID:	<a href="#">Q9CXC3</a>



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RefSeq Size: 2836

Cytogenetics: 2 G1

RefSeq ORF: 1014

Synonyms: 8430406I07Rik; AI426476

**Summary:** Metal-dependent single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. Has preference for 5'-3' exonuclease activity but is also capable of endonuclease activity on linear substrates. Necessary for maintenance of proper 7S DNA levels. Probably involved in mitochondrial DNA (mtDNA) repair, possibly via the processing of displaced DNA containing Okazaki fragments during RNA-primed DNA synthesis on the lagging strand or via processing of DNA flaps during long-patch base excision repair (By similarity). Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells. [UniProtKB/Swiss-Prot Function]