

Product datasheet for **TP527569**

Mta1 (NM_054081) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse metastasis associated 1 (Mta1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227569 representing NM_054081 Red =Cloning site Green =Tags(s)
	<p>MAANMYRVGDYVYFENSNNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSSLIALADKHAREVEEEV ENPEMVDLPEKLKHQLRHRELFLSRQLESLPATHIRGKCSVTLLNETESLSYLEREDFFFYSLVYDPQQ KTLLADKGEIRVGNRYQADITDLLKEGEEDGRDQSKLETKVWEAHNPLVDKIDQFLVVARSVGTFARAL DCSSSVRQPSLHMSAAAAASRDITLFHAMDTLHKNIYDISKAISALVPQGGPVLCDMEEWSASEANLFE EAEKYGKDFTDIQQDFLPWKSLTSIIIEYYMWKTTDRYVQQKRLKAAEAESKLKQVYIPNYNKPNNQI SASSVKATVNGTGTGPGQSPGAGRACESCYTTQSYQWYSWGPPNMQCRLCASCWTYWKYGGGLKMPTR LD GERPGPNRNNMSPHGIPARSSGSPKFAMKTRQAFYLHTTKLTRIARRLCREILRPWHAARHPYMPINSAA IKAECTARLPEASQSPLVLKQVVRKPLEAVLRYLETHPRPPKPDVPKSSSVLSSLTPAKSAPVINNGSP TILGKRSYEQHNGVDGNMKKRLLMPSRGLANHGQTRHMGPSRLLLLNGKSYPTKVRLIRGGSLPPVKRR R MNWIDAPDDVFYMATEETRKIRKLLSSSETKRAARRPYKPIALRQSQALPLRPPPPAPVNDEPIVIED</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	79.6 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.



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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_473422</u>
Locus ID:	116870
UniProt ID:	<u>F8WHY8</u>
RefSeq Size:	2775
Cytogenetics:	12 F1
RefSeq ORF:	2094
Synonyms:	MGC118456
Summary:	<p>Transcriptional coregulator which can act as both a transcriptional corepressor and coactivator. As a part of the histone-deacetylase multiprotein complex (NuRD), regulates transcription of its targets by modifying the acetylation status of the target chromatin and cofactor accessibility to the target DNA. In conjunction with other components of NuRD, acts as a transcriptional corepressor of BRCA1, ESR1, TFF1 and CDKN1A. Acts as a transcriptional coactivator of BCAS3, PAX5 and SUMO2, independent of the NuRD complex. Stimulates the expression of WNT1 by inhibiting the expression of its transcriptional corepressor SIX3. Regulates p53-dependent and -independent DNA repair processes following genotoxic stress. Regulates the stability and function of p53/TP53 by inhibiting its ubiquitination by COP1 and MDM2 thereby regulating the p53-dependent DNA repair. Plays an important role in tumorigenesis, tumor invasion, and metastasis. Plays a role in the regulation of the circadian clock and is essential for the generation and maintenance of circadian rhythms under constant light and for normal entrainment of behavior to light-dark (LD) cycles. Positively regulates the CLOCK-ARNTL/BMAL1 heterodimer mediated transcriptional activation of its own transcription and the transcription of CRY1. Regulates deacetylation of ARNTL/BMAL1 by regulating SIRT1 expression, resulting in derepressing CRY1-mediated transcription repression. With Tfcp2l1, promotes establishment and maintenance of pluripotency in embryonic stem cells (ESCs) and inhibits endoderm differentiation (PubMed:28982712). [UniProtKB/Swiss-Prot Function]</p>