

## Product datasheet for TP516128

### Jmjd7 (NM\_001114637) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse jumonji domain containing 7 (Jmjd7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216128 representing NM_001114637 Red=Cloning site Green=Tags(s)

MAEAALEAVRRALQEFPAARDLNVPVRYLDEPPSPLCFYRDWPCPNRPCIIRNALQHPALQKWSLS  
YLRATVGSTEVSVAVTPDGYADAVRGDRFVMPAERRLPISHVLDVLEGRAQHPGVLVYQKQCSNLPTELP  
QLLSDIESHVPWASESLGKMPDAVNFWLGDASAVTSLHKDHYENLYCVSGEKHFLHPPSDRPFIPYNL  
YTPATYQLTEEGTFRVVDDEAMEKVPWIPLDPLAPDLTQYPSYSQAQALHCTVRAGEMLYLPALWFHHVQ  
QSHGCIAVNFWYDMEYDLKYSYFQLMDTLTRATGLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	35.9 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_001108109</a>
Locus ID:	433466
UniProt ID:	<a href="#">P0C872</a>



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RefSeq Size: 1383

Cytogenetics: 2

RefSeq ORF: 948

Synonyms: MGC106779

**Summary:** Bifunctional enzyme that acts both as an endopeptidase and 2-oxoglutarate-dependent monooxygenase (PubMed:28847961) (By similarity). Endopeptidase that cleaves histones N-terminal tails at the carboxyl side of methylated arginine or lysine residues, to generate 'tailless nucleosomes', which may trigger transcription elongation (PubMed:28847961). Preferentially recognizes and cleaves monomethylated and dimethylated arginine residues of histones H2, H3 and H4. After initial cleavage, continues to digest histones tails via its aminopeptidase activity (PubMed:28847961). Additionally, may play a role in protein biosynthesis by modifying the translation machinery. Acts as Fe(2+) and 2-oxoglutarate-dependent monooxygenase, catalyzing (S)-stereospecific hydroxylation at C-3 of 'Lys-22' of DRG1 and 'Lys-21' of DRG2 translation factors (TRAFAC), promoting their interaction with ribonucleic acids (RNA) (By similarity).[UniProtKB/Swiss-Prot Function]