

## Recombinant Mouse Jmjd7 Protein, Myc/DDK-tagged

**Cat. No.** Jmjd7-3632M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length jumonji domain containing 7 (Jmjd7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Bifunctional enzyme that acts both as an endopeptidase and 2-oxoglutarate-dependent monooxygenase. 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. 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. Additionally, may play a role in protein biosynthesis by modifying the translation machinery. Acts as Fe <sup>2+</sup> 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).
<b>Molecular Mass</b>	35.9 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<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.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Jmjd7 jumonji domain containing 7 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Jmjd7</a>
<b>Synonyms</b>	JMJD7; jumonji domain containing 7; jmjC domain-containing protein 7; jumonji domain-containing protein 7; MGC106779
<b>Gene ID</b>	<a href="#">433466</a>
<b>mRNA Refseq</b>	<a href="#">NM_001114637</a>
<b>Protein Refseq</b>	<a href="#">NP_001108109</a>
<b>UniProt ID</b>	<a href="#">P0C872</a>

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