

Recombinant Mouse Clp1 Protein, Myc/DDK-tagged

Cat. No. Clp1-2196M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length CLP1, cleavage and polyadenylation factor I subunit (Clp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Polynucleotide kinase that can phosphorylate the 5'-hydroxyl groups of double-stranded RNA (dsRNA), single-stranded RNA (ssRNA), double-stranded DNA (dsDNA) and double-stranded DNA:RNA hybrids. dsRNA is phosphorylated more efficiently than dsDNA, and the RNA component of a DNA:RNA hybrid is phosphorylated more efficiently than the DNA component. Plays a key role in both tRNA splicing and mRNA 3'-end formation. Component of the tRNA splicing endonuclease complex: phosphorylates the 5'-terminus of the tRNA 3'-exon during tRNA splicing; this phosphorylation event is a prerequisite for the subsequent ligation of the two exon halves and the production of a mature tRNA. Its role in tRNA splicing and maturation is required for cerebellar development. Component of the pre-mRNA cleavage complex II (CF-II), which seems to be required for mRNA 3'-end formation. Also phosphorylates the 5'-terminus of exogenously introduced short interfering RNAs (siRNAs), which is a necessary prerequisite for their incorporation into the RNA-induced silencing complex (RISC). However, endogenous siRNAs and microRNAs (miRNAs) that are produced by the cleavage of dsRNA precursors by DICER1 already contain a 5'-phosphate group, so this protein may be dispensable for normal

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	RNA-mediated gene silencing.
Molecular Mass	47.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Clp1 CLP1, cleavage and polyadenylation factor I subunit [Mus musculus (house mouse)]
Official Symbol	Clp1
Synonyms	Clp1; CLP1, cleavage and polyadenylation factor I subunit; Heab; AI462438; polyribonucleotide 5'-hydroxyl-kinase Clp1; ATP/GTP-binding protein; polynucleotide kinase Clp1; pre-mRNA cleavage complex II protein Clp1; EC 2.7.1.78
Gene ID	98985
mRNA Refseq	NM_133840
Protein Refseq	NP_598601

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UniProt ID

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