

Recombinant Mouse Pan3 Protein, Myc/DDK-tagged

Cat. No. Pan3-4667M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length PAN3 polyA specific ribonuclease subunit homolog (S, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulatory subunit of the poly(A)-nuclease (PAN) deadenylation complex, one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA and the activity is stimulated by poly(A)-binding protein (PABP). PAN deadenylation is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadened mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenylation-dependent mRNA decapping and subsequent 5'-3' exonucleolytic degradation by XRN1. PAN3 acts as a positive regulator for PAN activity, recruiting the catalytic subunit PAN2 to mRNA via its interaction with RNA and PABP, and to miRNA targets via its interaction with GW182 family proteins.
Molecular Mass	62.8 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	Pan3 PAN3 poly(A) specific ribonuclease subunit [Mus musculus (house mouse)]
Official Symbol	Pan3
Synonyms	Pan3; PAN3 poly(A) specific ribonuclease subunit; AU014670; 2700050F09Rik; A430027N15Rik; PAN2-PAN3 deadenylation complex subunit Pan3; PAB-dependent poly(A)-specific ribonuclease subunit 3; PAB1P-dependent poly(A)-specific ribonuclease; PAN3 polyA specific ribonuclease subunit homolog; Pabp-dependent poly(A) nuclease 3; Pabp1-dependent poly A-specific ribonuclease subunit Pan3; poly(A)-nuclease deadenylation complex subunit 3; EC 3.1.13.4
Gene ID	72587
mRNA Refseq	NM_028291
Protein Refseq	NP_082567
UniProt ID	Q640Q5