

Product datasheet for TP318027

PAN3 (NM_175854) Human Recombinant Protein

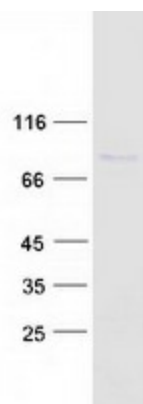
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human PAN3 poly(A) specific ribonuclease subunit homolog (S. cerevisiae) (PAN3), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218027 representing NM_175854 Red =Cloning site Green =Tags(s) MDGGALTDTSLTDSYFSTSFIVNGFGSPVETKYPLMQRMNTNSSSSPSLLNDSAKPYS AHDPLTSPASSL FNDFGALNISQRRKTPNPTASEFIPKGGSTSRLSNVSQSNMSAFSQVFSHPMGSPATAGLAPGMSLSAG SSPLHSPKITPHTSPAPRRRSHTPNPASVMVPSSASTSVNPNVSTPSSGQVIQKETVGGTTYFYDTTP APLTGMVFPNYHIYPPTAPHVAYMQPKANAPSFMADELRLQELINRHLITMAQIDQADMPAVPTEVDSY H SLFPLEPLPPPNRIQSSNFGYITSCYKAVNSKDDLPLYCLRRHGFRLVNTKCMVLVDMWKKIQHSNIVT LREVFTTKAFAEPSLVFAYDFHAGGETMMSRHFNDPNADAYFTKRKWGQHEGPLRQHQHAGLLPESLIWA Y IVQLSSALRTIHTAGLACRVMDPTKILITGKTRLRVNCGVFDVLTFDNSQNNNPLALMAQYQQADLISL GKVV LALACNSLAGIQREN LQKAMELV TINYSSDLKNLILYLLTDQNRMRSVNDIMPMIGARFYTQLDAA QMRNDVIEEDLAKEVQNGRLFRLLAKLGTINERPEFQKDPTWSETGDRYLLKLFRDHLFHQVTEAGAPWI DLSHIISCLNKLDAGVPEKISLISRDEKSVLVVTYSDLKRCFENTFQELIAAANGQL TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	95.4 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.


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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.
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:	NP_787050
Locus ID:	255967
UniProt ID:	Q58A45
RefSeq Size:	5643
Cytogenetics:	13q12.2
RefSeq ORF:	2061
Summary:	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. Deadenylated 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.[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome

Product images:



Coomassie blue staining of purified PAN3 protein (Cat# TP318027). The protein was produced from HEK293T cells transfected with PAN3 cDNA clone (Cat# [RC218027]) using MegaTran 2.0 (Cat# [TT210002]).