

## Product datasheet for TP511796

### Pan2 (NM\_133992) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse PAN2 poly(A) specific ribonuclease subunit (Pan2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211796 protein sequence Red=Cloning site Green=Tags(s)

MNFEGLDPLGLAEFSPAMHSTLDPVLDAHLNPSLLQNVELDPEGVALEALPVQESVHIMEGVYSELHSVA  
 EVGVPVSVSHFDLHEEMLWVGSHGGHATSFPGPALERYSSFQVNGGDDIRQIQSLENGILFLTKNNLKYM  
 ARGGLIIFDYLLDENEDMHSVLLTDNSTLLVGGQNHVLEIDLNTVQETQKYAVETPGVTIMRQTNRFF  
 CGHTSGKVSLRDLRSFKVEHEFDADFSGSLSDFDVHGNLLAACGFSSRLTGLACDRFLKVYDLRMMRAITP  
 LQVHVDPAFLRFIPTYTSRLAIISQSGQCQFCEPTGLANPADIFHVNPVGPLLMTFDVSASKQALAFGDS  
 EGCVHLWTDSPPEFNFYSRETEFALPCLVDSLPLDWSQDLLPLSLIPVPLTTDALLSDWPAANSAPAP  
 RRAPPVDAEILRTMKKVGFIGYAPNPRTRLRNQIPYRLKESDHEFDNFSQVTESPTGREEEPLHTVSKKY  
 RKVTIKYKSLGLEDFDFKHYNKTLFAGLEPHIPNAYCNCMIQVLYFLEPVRLIQNHLCQKEFCLACELG  
 FLFHMLDLSRGDPCQGSNFLRAFRTIPEASALGLILADSDEASGKGLARLIQRWNRFLTQLHQDMQEL  
 EVPQAYRGAGGSFCSSGDSIIGQLFSCEMENCSLCRCGSETVRASSTLLFTLSYPEDKTGKNYDFAQVLK  
 RSICLEQNTQAWCDNCEKYQPTIQTRNIRHLPDILVINCEVNSSKEADFWRLQAEVAFKIAVKKYGGEMK  
 SKEFALADRKELRSPGFLCSSIEELKNVWLPFSIRMKMTKNKGLDVCNWADEHELSSLGAPSQWGPARA  
 EEELGVVYDLMATVHILDSRTGGSLVAHIKVGETYHQRKEGVTHQQWYLFNDFLIEPIDKYEAVQFDM  
 NWKVPAILYYVKNLNSRYNLNIKNPIEASVLLAEASLARKQRKTHHTFIPLMLNEMPQVGDVGLDAEF  
 VTLNEEEAELRSDGKSTIKPSQMSVARITCVRGQGPNEGIPFIDYISTQEQQVDYLTQYSGIKPGDLD  
 AKISSKHLTTLKSTYLKLRFLIDIGVKFVGHGLQKDFRVINLMVPKDQVLDTVYLFHMPRKRKMISLRF  
 WYFLDLKIQGETHDSIEDARTALQLYRKYLELSKNGTEPESFHKVVKGLYEKGRKMDWKVPEPESQTS  
 PKNAAVFSVLAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	135.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<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.
<b>RefSeq:</b>	<a href="#">NP_598753</a>
<b>Locus ID:</b>	103135
<b>UniProt ID:</b>	<a href="#">Q8BGF7</a>
<b>RefSeq Size:</b>	4450
<b>Cytogenetics:</b>	10 D3
<b>RefSeq ORF:</b>	3603
<b>Synonyms:</b>	1200014O24Rik; AI047843; AW742773; mKIAA0710; Usp52
<b>Summary:</b>	Catalytic 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 (PubMed:16284618). Also acts as an important regulator of the HIF1A-mediated hypoxic response. Required for HIF1A mRNA stability independent of poly(A) tail length regulation (By similarity).[UniProtKB/Swiss-Prot Function]