

Product datasheet for TP511386

Pum2 (NM_001160222) Mouse Recombinant Protein

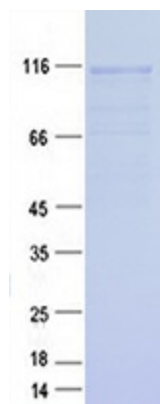
Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse pumilio RNA-binding family member 2 (Pum2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211386 representing NM_001160222 Red =Cloning site Green =Tags(s)
	<p>MNHDFQALALESRGMGELLPTKKFWEPDDSTKDGQKGI FLGDDEWRETAWGTSHHSMSQPIMVQRRSGQS FHGNSEVNAILSPRSESGGLGVSMVEYVLS SSPADKLSRFRKGTFGTRDAETDGPEKGDQK GKASPFE DQNRDLKQDDEDSKINGRGLPNGMDADCKDFNRTPGSRQASPT EOVERLGPSTNPPEGLGPLNPNTANKP LVEEFSNPETQNL DAMDQVGLDSLQFDYPGNQVPM DSSGATVGLFDYNSQQQLFQRTSALT VQQLTAAQQ QQYALAAAQQPHIAGVFSAGLAPAAFVNPYIISAAPPGTDPYTAAGLAAAATLAGPAVPPQYYGVPWG VYPANLFQQQAAAAASNTANQQAASQAQPGQQQVLRPGAGQRPITPSQGGQQQAESLAAAAANPTLAFGQ SLAAGMPGYQVLAPTAYDQTGALVWGP GARTGLGAPVRLMAPTPVLISSTAAQAAAAAAAAGGTANSLT GSTNGLFRPIGTQPPQQQQQQQPSTNLQSN SFYSSSLTNSQSSSLFSHGPGQPGSASLGFSGSSLG AAIGSALSFGSSGGLTNGSGRYISAAPGAEAKYRSASSTSLFSSSSQLFPPSRLRYNRS DIMPSGRSR LLEDFRNNRFPNLQLRDLIGHIVEFSQDQHGSRFIQKLERATPAERQIVFNEILQAAYQLMTDVF GN YV IQKFFFGSLDQKLALATRIRGHVLP LALQMYGCRVIQKALESISSDQSEMVKELDGHV LKVKDQNGN HVVQKCI ECVQPQSLQFIIDAFKGQV FVLSTHPYGCRVIQRILEHCTAEQTLPILEELHQHTEQLVQDQY GNYVIQHVLEHGRPEDKSKIVSEIRGKVLALSQH K FASN VVEKCVTHASRAERALLIDEVCCQNDGPHSA LYTMMKDQYANYVVKMIDMAEPAQRKIIMHKIRPHITTLRKYTYGKHILAKLEKY LKNSPDLGPIGGP PNGML</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	106.6 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



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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 after receiving vials.
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_001153694
Locus ID:	80913
UniProt ID:	Q80U58 , Q3TQ29
RefSeq Size:	5883
Cytogenetics:	12 A1.1
RefSeq ORF:	2955
Synonyms:	5730503J23Rik; Pumm2
Summary:	<p>Sequence-specific RNA-binding protein that acts as a post-transcriptional repressor by binding the 3' UTR of mRNA targets. Binds to an RNA consensus sequence, the Pumilio Response Element (PRE), 5'-UGUANAUA-3', that is related to the Nanos Response Element (NRE). Mediates post-transcriptional repression of transcripts via different mechanisms: acts via direct recruitment of the CCR4-POP2-NOT deadenylase leading to translational inhibition and mRNA degradation. Also mediates deadenylation-independent repression by promoting accessibility of miRNAs. Acts as a post-transcriptional repressor of E2F3 mRNAs by binding to its 3' UTR and facilitating miRNA regulation. Plays a role in cytoplasmic sensing of viral infection. Represses a program of genes necessary to maintain genomic stability such as key mitotic, DNA repair and DNA replication factors. Its ability to repress those target mRNAs is regulated by the lncRNA NORAD (non-coding RNA activated by DNA damage) which, due to its high abundance and multitude of PUMILIO binding sites, is able to sequester a significant fraction of PUM1 and PUM2 in the cytoplasm. May regulate DCUN1D3 mRNA levels. May support proliferation and self-renewal of stem cells. Binds specifically to miRNA MIR199A precursor, with PUM1, regulates miRNA MIR199A expression at a posttranscriptional level (By similarity).[UniProtKB/Swiss-Prot Function]</p>

Product images:

Purified recombinant protein Pum2 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.