

Product datasheet for TP503472

Pqbp1 (NM_019478) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse polyglutamine binding protein 1 (Pqbp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR203472 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDDPVDYEATRIEGLPPSWYKVFDPSCGLPYYWNVET
DLVSWLSPHDPNFVVTSAKKVRNNNADAEDKSDRNLEKVDNRNHEKSDRSHEKPDRSHEKADRNEKNDNR
ERERNYDKVDRERDRERERERAFDKADREEGKDRRHRREELAPYPKNKKATSRKDEELDPMDPSSYSDA
PRGTWSTGLPKRNEAKTGADTTAAGPLFQQRYPSPGAVLRANAASRTKQQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	30.6 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
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_062351
Locus ID:	54633
UniProt ID:	Q91VJ5 , A2AER7
RefSeq Size:	1248



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Cytogenetics: X 3.56 cM

RefSeq ORF: 792

Synonyms: npw38; PQBP-1; Sfc2

Summary: Intrinsically disordered protein that acts as a scaffold, and which is involved in different processes, such as pre-mRNA splicing, transcription regulation, innate immunity and neuron development (By similarity). Interacts with splicing-related factors via the intrinsically disordered region and regulates alternative splicing of target pre-mRNA species (PubMed:23512658). May suppress the ability of POU3F2 to transactivate the DRD1 gene in a POU3F2 dependent manner (By similarity). Can activate transcription directly or via association with the transcription machinery (By similarity). May be involved in ATXN1 mutant-induced cell death (By similarity). The interaction with ATXN1 mutant reduces levels of phosphorylated RNA polymerase II large subunit (By similarity). Involved in the assembly of cytoplasmic stress granule, possibly by participating to the transport of neuronal RNA granules (By similarity). Also acts as an innate immune sensor of infection by retroviruses, by detecting the presence of reverse-transcribed DNA in the cytosol (By similarity). Directly binds retroviral reverse-transcribed DNA in the cytosol and interacts with CGAS, leading to activate the cGAS-STING signaling pathway, triggering type-I interferon production (By similarity).[UniProtKB/Swiss-Prot Function]