

Datasheet for ABIN3094816

PUM2 Protein (AA 1-1066) (Strep Tag)



Overview

Quantity:	250 μg
Target:	PUM2
Protein Characteristics:	AA 1-1066
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PUM2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Brand:	AliCE®
Sequence:	MNHDFQALAL ESRGMGELLP TKKFWEPDDS TKDGQKGIFL GDDEWRETAW GASHHSMSQP
	IMVQRRSGQG FHGNSEVNAI LSPRSESGGL GVSMVEYVLS SSPADKLDSR FRKGNFGTRD
	AETDGPEKGD QKGKASPFEE DQNRDLKQGD DDDSKINGRG LPNGMDADCK DFNRTPGSRQ
	ASPTEVVERL GPNTNPSEGL GPLPNPTANK PLVEEFSNPE TQNLDAMEQV GLESLQFDYP
	GNQVPMDSSG ATVGLFDYNS QQQLFQRTNA LTVQQLTAAQ QQQYALAAAQ QPHIAGVFSA
	GLAPAAFVPN PYIISAAPPG TDPYTAAGLA AAATLAGPAV VPPQYYGVPW GVYPANLFQQ
	QAAAAANNTA SQQAASQAQP GQQQVLRAGA GQRPLTPNQG QQGQQAESLA AAAAANPTLA
	FGQGLATGMP GYQVLAPTAY YDQTGALVVG PGARTGLGAP VRLMAPTPVL ISSAAAQAAA
	AAAAGGTASS LTGSTNGLFR PIGTQPPQQQ QQQPSTNLQS NSFYGSSSLT NSSQSSSLFS
	HGPGQPGSTS LGFGSGNSLG AAIGSALSGF GSSVGSSASS SATRRESLST SSDLYKRSSS
	SLAPIGQPFY NSLGFSSSPS PIGMPLPSQT PGHSLTPPPS LSSHGSSSSL HLGGLTNGSG

RYISAAPGAE AKYRSASSTS SLFSSSSQLF PPSRLRYNRS DIMPSGRSRL LEDFRNNRFP
NLQLRDLIGH IVEFSQDQHG SRFIQQKLER ATPAERQMVF NEILQAAYQL MTDVFGNYVI
QKFFEFGSLD QKLALATRIR GHVLPLALQM YGCRVIQKAL ESISSDQQVI SEMVKELDGH
VLKCVKDQNG NHVVQKCIEC VQPQSLQFII DAFKGQVFVL STHPYGCRVI QRILEHCTAE
QTLPILEELH QHTEQLVQDQ YGNYVIQHVL EHGRPEDKSK IVSEIRGKVL ALSQHKFASN
VVEKCVTHAS RAERALLIDE VCCQNDGPHS ALYTMMKDQY ANYVVQKMID MAEPAQRKII
MHKIRPHITT LRKYTYGKHI LAKLEKYYLK NSPDLGPIGG PPNGML

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- · State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

• The concentration of our recombinant proteins is measured using the absorbance at 280nm.

- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target:

PUM2

Alternative Name:

PUM2 (PUM2 Products)

Background:

Pumilio homolog 2 (Pumilio-2), FUNCTION: 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) (, PubMed:21397187). 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 (PubMed:22955276). Also mediates deadenylation-independent repression by promoting accessibility of miRNAs (PubMed:18776931, PubMed:22345517). Acts as a post-transcriptional repressor of E2F3 mRNAs by binding to its 3'-UTR and facilitating miRNA regulation (PubMed:22345517). Plays a role in cytoplasmic sensing of viral infection (PubMed:25340845). 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 IncRNA 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 (PubMed:26724866). May regulate DCUN1D3 mRNA levels (PubMed:25349211). May support proliferation and self-renewal of stem cells. Binds specifically to miRNA MIR199A precursor, with PUM1, regulates miRNA MIR199A expression at a postranscriptional level (PubMed:28431233). (ECO:0000269|PubMed:18776931, ECO:0000269|PubMed:21397187, ECO:0000269|PubMed:22345517, ECO:0000269|PubMed:22955276, ECO:0000269|PubMed:25340845, ECO:0000269|PubMed:25349211, ECO:0000269|PubMed:26724866, ECO:0000269|PubMed:28431233}

Target Details Molecular Weight: 114.2 kDa UniProt: Q8TB72 Pathways: Ribonucleoprotein Complex Subunit Organization **Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Restrictions: For Research Use only Handling Format: Liquid Buffer: The buffer composition is at the discretion of the manufacturer.

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Avoid repeated freeze-thaw cycles.

-80 °C

Store at -80°C.

12 months

Handling Advice:

Storage Comment:

Storage:

Expiry Date:

Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.