

Datasheet for ABIN3134613

CPEB1 Protein (AA 1-561) (Strep Tag)



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Quantity:	250 μg
Target:	CPEB1
Protein Characteristics:	AA 1-561
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPEB1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Brand:	AliCE®
Sequence:	MAFSLEEAAG RIKDCWDNQE VPALSTCSNA NIFRRINAIL DDSLDFSKVC TTPINRGIHD
	QLPDFQDSEE TVTSRMLFPT SAQESPRGLP DANGLCLGLQ SLSLTGWDRP WSTQDSDSSA
	QSSTQSVLSM LQNPLGNVLG KAPLSFLSLD PLGSDLDKFP APSVRGSRLD TRPILDSRSS
	SPSDSDTSGF SSGSDHLSDL ISSLRISPPL PFLSMTGNGP RDPLKMGVGS RMDQEQAALA
	AVAPSPTSAP KRWPGASVWP SWDLLGAPKD PFSIEREARL HRQAAAVNEA TCTWSGQLPP
	RNYKNPIYSC KVFLGGVPWD ITEAGLVNTF RVFGSLSVEW PGKDGKHPRC PPKGNMPKGY
	VYLVFELEKS VRALLQACSH DPLSPDGLSE YYFKMSSRRM RCKEVQVIPW VLADSNFVWS
	PSQRLDPSRT VFVGALHGML NAEALAAILN DLFGGVVYAG IDTDKHKYPI GSGRVTFNNQ
	RSYLKAVTAA FVEIKTTKFT KKVQIDPYLE DSLCLICSSQ PGPFFCRDQV CFKYFCRSCW
	HWRHSMEGLR HHSPLMRNQK N
	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:	CPEB1
Alternative Name:	Cpeb1 (CPEB1 Products)
Background:	Cytoplasmic polyadenylation element-binding protein 1 (CPE-BP1) (CPE-binding protein 1)
	(mCPEB) (mCPEB-1),FUNCTION: Sequence-specific RNA-binding protein that regulates mRNA
	cytoplasmic polyadenylation and translation initiation during oocyte maturation, early
	development and at postsynapse sites of neurons. Binds to the cytoplasmic polyadenylation
	element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within
	the 3'-UTR of mRNAs. In absence of phosphorylation and in association with TACC3 is also
	involved as a repressor of translation of CPE-containing mRNA, a repression that is relieved by
	phosphorylation or degradation (By similarity). Involved in the transport of CPE-containing
	mRNA to dendrites, those mRNAs may be transported to dendrites in a translationally dormant
	form and translationally activated at synapses. Its interaction with APLP1 promotes local CPE-
	containing mRNA polyadenylation and translation activation. Induces the assembly of stress
	granules in the absence of stress (By similarity). Required for cell cycle progression, specifically
	for prophase entry (By similarity). {ECO:0000250 UniProtKB:Q9BZB8,
	ECO:0000269 PubMed:11526086, ECO:0000269 PubMed:11980711,
	ECO:0000269 PubMed:12629046}.
Molecular Weight:	61.9 kDa
UniProt:	P70166
Pathways:	Synaptic Membrane
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	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
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	mitochondria to drive the reaction. During our lysate completion steps, the additional

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months