

Datasheet for ABIN3075353

ATP6V1B1 Protein (AA 1-513) (Strep Tag)



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Quantity:	250 μg
Target:	ATP6V1B1
Protein Characteristics:	AA 1-513
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V1B1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Brand:	AliCE®
Seguence:	MAMEIDSRPG GLPGSSCNLG AAREHMQAVT RNYITHPRVT YRTVCSVNGP LVVLDRVKFA
	QYAEIVHFTL PDGTQRSGQV LEVAGTKAIV QVFEGTSGID ARKTTCEFTG DILRTPVSED
	MLGRVFNGSG KPIDKGPVVM AEDFLDINGQ PINPHSRIYP EEMIQTGISP IDVMNSIARG
	QKIPIFSAAG LPHNEIAAQI CRQAGLVKKS KAVLDYHDDN FAIVFAAMGV NMETARFFKS
	DFEQNGTMGN VCLFLNLAND PTIERIITPR LALTTAEFLA YQCEKHVLVI LTDMSSYAEA
	LREVSAAREE VPGRRGFPGY MYTDLATIYE RAGRVEGRGG SITQIPILTM PNDDITHPIP
	DLTGFITEGQ IYVDRQLHNR QIYPPINVLP SLSRLMKSAI GEGMTRKDHG DVSNQLYACY
	AIGKDVQAMK AVVGEEALTS EDLLYLEFLQ KFEKNFINQG PYENRSVFES LDLGWKLLRI
	FPKEMLKRIP QAVIDEFYSR EGALQDLAPD TAL
	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 yo

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:	ATP6V1B1	
Alternative Name:	ATP6V1B1 (ATP6V1B1 Products)	
Background:	V-type proton ATPase subunit B, kidney isoform (V-ATPase subunit B 1) (Endomembrane	
	proton pump 58 kDa subunit) (Vacuolar proton pump subunit B 1),FUNCTION: Non-catalytic	
	subunit of the V1 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme	
	composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex	
	(V0) that translocates protons (PubMed:16769747). V-ATPase is responsible for acidifying and	
	maintaining the pH of intracellular compartments and in some cell types, is targeted to the	
	plasma membrane, where it is responsible for acidifying the extracellular environment	
	(PubMed:32001091). Essential for the proper assembly and activity of V-ATPase	
	(PubMed:16769747). In renal intercalated cells, mediates secretion of protons (H+) into the	
	urine thereby ensuring correct urinary acidification (PubMed:16769747). Required for optimal	
	olfactory function by mediating the acidification of the nasal olfactory epithelium (By similarity)	
	{ECO:0000250 UniProtKB:Q91YH6, ECO:0000269 PubMed:16769747,	
	ECO:0000303 PubMed:32001091}.	
Molecular Weight:	56.8 kDa	
UniProt:	P15313	
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Proton Transport	
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	
	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	

Application Details

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	