

Datasheet for ABIN3118247

ATP6V0A4 Protein (AA 1-840) (Strep Tag)



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Quantity:	250 μg
Target:	ATP6V0A4
Protein Characteristics:	AA 1-840
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V0A4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Brand:	AliCE®
Sequence:	MVSVFRSEEM CLSQLFLQVE AAYCCVAELG ELGLVQFKDL NMNVNSFQRK FVNEVRRCES
	LERILRFLED EMQNEIVVQL LEKSPLTPLP REMITLETVL EKLEGELQEA NQNQQALKQS
	FLELTELKYL LKKTQDFFET ETNLADDFFT EDTSGLLELK AVPAYMTGKL GFIAGVINRE
	RMASFERLLW RICRGNVYLK FSEMDAPLED PVTKEEIQKN IFIIFYQGEQ LRQKIKKICD
	GFRATVYPCP EPAVERREML ESVNVRLEDL ITVITQTESH RQRLLQEAAA NWHSWLIKVQ
	KMKAVYHILN MCNIDVTQQC VIAEIWFPVA DATRIKRALE QGMELSGSSM APIMTTVQSK
	TAPPTFNRTN KFTAGFQNIV DAYGVGSYRE INPAPYTIIT FPFLFAVMFG DCGHGTVMLL
	AALWMILNER RLLSQKTDNE IWNTFFHGRY LILLMGIFSI YTGLIYNDCF SKSLNIFGSS
	WSVQPMFRNG TWNTHVMEES LYLQLDPAIP GVYFGNPYPF GIDPIWNLAS NKLTFLNSYK
	MKMSVILGIV QMVFGVILSL FNHIYFRRTL NIILQFIPEM IFILCLFGYL VFMIIFKWCC
	FDVHVSQHAP SILIHFINMF LFNYSDSSNA PLYKHQQEVQ SFFVVMALIS VPWMLLIKPF

ILRASHRKSQ LQASRIQEDA TENIEGDSSS PSSRSGQRTS ADTHGALDDH GEEFNFGDVF VHQAIHTIEY CLGCISNTAS YLRLWALSLA HAQLSEVLWT MVMNSGLQTR GWGGIVGVFI IFAVFAVLTV AILLIMEGLS AFLHALRLHW VEFQNKFYVG DGYKFSPFSF KHILDGTAEE

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

Product Details

	System (AliCE®).	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).	
Grade:	custom-made	
Target Details		
Target:	ATP6V0A4	
Alternative Name:	ATP6V0A4 (ATP6V0A4 Products)	
Background:	V-type proton ATPase 116 kDa subunit a 4 (V-ATPase 116 kDa isoform a 4) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 4) (Vacuolar proton translocating ATPase 116 kDa subunit a kidney isoform),FUNCTION: Subunit of the V0 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 (By similarity). 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 (By similarity). Involved in normal vectorial acid transport into the urine by the kidney (PubMed:10973252, PubMed:12414817). {ECO:0000250 UniProtKB:Q29466, ECO:0000250 UniProtKB:Q93050, ECO:0000269 PubMed:10973252, ECO:0000269 PubMed:12414817}.	
Molecular Weight:	96.4 kDa	
UniProt:	Q9HBG4	
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	

Application Details

	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.
	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