

Datasheet for ABIN3096387

VPS54 Protein (AA 1-977) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	VPS54
Protein Characteristics:	AA 1-977
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS54 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MASSHSSSPV PQGSSSDVFF KIEVDPSKHI RVPVSLPDVC PKEPTGDSHS LYVAPSLVTD</p> <p>QHRWTVYHSK VNLPAALNDP RLAKRESDFE TKTWGLDFVD TEVIPSFYLP QISKEHFTVY</p> <p>QQEISQREKI HERCKNICPP KDTFERTLLH THDKSRTDLE QVPKIFMKPD FALDDSLTFN</p> <p>SVLPWSHFNT AGGKGNRDAA SSKLLQEKLS HYLDIVEVNI AHQISLRSEA FFHAMTSQHE</p> <p>LQDYLRKTSQ AVKMLRDKIA QIDKVMCEGS LHILRLALTR NNCVKVYNKL KLMATVHQTQ</p> <p>PTVQVLLSTS EFVGALDLIA TTQEVLLQEL QGIHSFRHLG SQLCELEKLI DKMMIAEFST</p> <p>YSHSDLNRPL EDDCQVLEEE RLISLVFGLL KQRKLNFLFI YGEKMOVITAK NIIKQCVINK</p> <p>VSQTEEIDTD VVVKLADQMR MLNFPQWFDL LKDIFSFTI FLQVRKATLN IISVWLSVL</p> <p>DKNQRTRELE EISQQKNAAK DNSLDTEVAY LIHEGMFISD AFGEGETPI AVDTTSQRNA</p> <p>SPNSEPCSSD SVSEPECTTD SSSSKEHTSS SAIPGGVDIM VSEDMKLTDS ELGKLANNIQ</p> <p>ELLYSASDIC HDRAVKFLMS RAKDGFLEKL NSMEFITLSR LMETFILDTE QICGRKSTSL</p>

LGALQSQAIAK FVNRHFHEERK TKLSLLLDNE RWKQADVPAAE FQDLVDSLSD GKIALPEKKS
GATEERKPAE VLIVEGQQYA VVGTVLLLR IILEYCQCVD NIPSVTTDML TRLSDLLKYF
NSRSCQLVLG AGALQVVGLK TITTKNLALS SRCLQLIVHY IPVIRAHFEA RLPPKQYSML
RHFDHITKDY HDHIAEISAK LVAIMDSLFD KLLSKYEVKA PVPSACFRNI CKQMTKMHEA
IFDLLPEEQT QMLFLRINAS YKLHLKKQLS HLNVINDDGP QNGLVTADVA FYTGNLQALK
GLKDLDLNMA EIWEQKR

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 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!

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.

Product Details

- 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: VPS54

Alternative Name: VPS54 ([VPS54 Products](#))

Background: Vacuolar protein sorting-associated protein 54 (Hepatocellular carcinoma protein 8) (Tumor antigen HOM-HCC-8) (Tumor antigen SLP-8p),FUNCTION: Acts as a component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD (PubMed:18367545). Within the GARP complex, required to tether the complex to the TGN. Not involved in endocytic recycling (PubMed:25799061). {ECO:0000269|PubMed:18367545, ECO:0000269|PubMed:25799061}.

Molecular Weight: 110.6 kDa

UniProt: [Q9P1Q0](#)

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.

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Application Details

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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