

Datasheet for ABIN3096387

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



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	VPS54
Protein Characteristics:	AA 1-977
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS54 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence:	MASSHSSSPV PQGSSSDVFF KIEVDPSKHI RPVPSLPDVC PKEPTGDSHS LYVAPSLVTD QHRWTVYHSK VNLPAALNDP RLAKRESDFE TKTWGLDFVD TEVIPSFYLP QISKEHFTVY QQEISQREKI HERCKNICPP KDTFERTLLH THDKSRTDLE QVPKIFMKPD FALDDSLTFN SVLPWSHFNT AGGKGNRDAA SSKLLQEKLS HYL DIVEVNI AHQISLRSEA FFHAMTSQHE LQDYLRKTSQ AVKMLRDKIA QIDKVMCEGS LHILRLALTR NNCVKVYNKL KLMATVHQTQ PTVQVLLSTS EFGALDLIA TTQEV LQQEL QGIHSFRHLG SQLCELEKLI DKMMIAEFST YSHSDLNRPL EDDCQVLEEE RLISLVFGLL KQRKLNFL EI YGEKMMITAK NIIKQCVINK VSQTEEIDTD VVVKLADQMR MLNFPQWFDL LKDIFSKFTI FLQRVKATLN IISVVL SVL DKNQRTRELE EISQQKNAAK DNSLDTEVAY LIHEGMFISD AFGEGELTPI AVDTTSQRNA SPNSEPCSSD SVSEPECTTD SSSSKEHTSS SAIPGGVDIM VSEDMKLTDS ELGKLANNIQ ELLYSASDIC HDRAVKFLMS RAKDGFLEKL NSMEFITLSR LMETFILDTE QICGRKSTSL LGALQSQAIAK FVNRFH EERK TKLSLLLDNE RWKQADVPAE FQDLVDSLSD GKIALPEKKS
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GATEERKPAE VLIVEGQQYA VVGTVLLLIR IILEYCQCVD NIPSVTTDML TRLSDLLKYF  
NSRSCQLVLG AGALQVVGLK TITTKNLALS SRCLQLIVHY IPVIRAHFEA RLPPKQYSML  
RHFHDITKDY HDHIAEISAK LVAIMDSLFD KLLSKYEVKA PVPSACFRNI CKQMTKMHEA  
IFDLLPEEQT QMLFLRINAS YKLHLKKQLS HLNVINDDGGP 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its

## Product Details

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specific reference buffer.

- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

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Target:	VPS54
Alternative Name:	VPS54 ( <a href="#">VPS54 Products</a> )
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:	<a href="#">Q9P1Q0</a>

## Application Details

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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.
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## Application Details

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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process