

Datasheet for ABIN3096296

VPS39 Protein (AA 1-886) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	VPS39
Protein Characteristics:	AA 1-886
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS39 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MHDAFEPVPI LEKLPLQIDC LAAWEEWLLV GTKQGHLLLY RIRKDVVPAD VASPESGSCN RFEVTLEKSN KNFSKKIQQI HVVSQFKILV SLENNIYVH DLLTFQQITT VSKAKGASLF TCDLQHTETG EEVLRMCVAV KKKLQLYFWK DREFHELQGD FSPVDVPKSM AWCENSICVG FKRDYYLIRV DGKGSIKELF PTGKQLEPLV APLADGKVAV GQDDLTVVLN EEGICTQKCA LNWTDIPVAM EHQPPIIIV LPRYVEIRTF EPRLLVQSIE LQRPRFITSG GSNIIVVASN HFVWRLIPVP MATQIQQLLQ DKQFELALQL AEMKDDSDSE KQQQIHHIKN LYAFNLFCQK RFDESMQVFA KLGTDPTHVM GLYPDLLPTD YRKQLQYPNP LPVLSGAELE KAHLALIDYL TQKRSQLVKK LNDSDHQSST SPLMEGTPTI KSKKKLLQII DTTLLKCYLH TNVALVAPLL RLENNHCHIE ESEHVLKKAH KYSELIILYE KKGLHEKALQ VLVDQSKKAN SPLKGHERTV QYLQHLGTEN LHLIFSYSVW VLRDFPEDGL KIFTEDLPEV ESLPRDRVLG FLIENFKGLA IPYLEHIIHV WEETGSRFHN CLIQLYCEKV QGLMKEYLLS FPAGKTPVPA GEEEGELGEY RQKLLMFLEI SSYYDPGRLI CDFPFDGLLE ERALLLGRMG KHEQALFIYV HILKDTRMAE
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EYCHKHYDRN KDGKNDVYLS LLRMYLSPPS IHCLGPIKLE LLEPKANLQA ALQVLELHHS
KLDTTKALNL LPANTQINDI RIFLEKVL EE NAQKKRFNQV LKNLLHAEFL RVQEERILHQ
QVKCIITEEK VCMVCKKKIG NSAFARYPNG VVVHYFCSKE VNPADT

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 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 specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): 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. 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.
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

Target:	VPS39
Alternative Name:	VPS39 (VPS39 Products)
Background:	<p>Vam6/Vps39-like protein (TRAP1-like protein) (hVam6p),FUNCTION: Regulator of TGF-beta/activin signaling, inhibiting SMAD3- and activating SMAD2-dependent transcription. Acts by interfering with SMAD3/SMAD4 complex formation, this would lead to inhibition of SMAD3-dependent transcription and relieve SMAD3 inhibition of SMAD2-dependent promoters, thus increasing SMAD2-dependent transcription. Does not affect TGF-beta-induced SMAD2 or SMAD3 phosphorylation, nor SMAD2/SMAD4 complex formation.</p> <p>{ECO:0000269 PubMed:12941698}., FUNCTION: Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Acts as a component of the putative HOPS endosomal tethering complex which is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes (PubMed:23351085). Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes (PubMed:11448994, PubMed:23351085, PubMed:23167963). Required for fusion of endosomes and autophagosomes with lysosomes (PubMed:25783203).</p> <p>{ECO:0000269 PubMed:11448994, ECO:0000269 PubMed:23167963, ECO:0000269 PubMed:25783203, ECO:0000269 PubMed:33422265, ECO:0000305 PubMed:23351085}.</p>

Target Details

Molecular Weight:	101.8 kDa
UniProt:	Q96JC1
Pathways:	SARS-CoV-2 Protein Interactome

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:	<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

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)



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