

Datasheet for ABIN3096295 VPS29 Protein (AA 1-182) (Strep Tag)



Overview	
Quantity:	1 mg
Target:	VPS29
Protein Characteristics:	AA 1-182
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS29 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)
Product Details	
Sequence:	MLVLVLGDLH IPHRCNSLPA KFKKLLVPGK IQHILCTGNL CTKESYDYLK TLAGDVHIVR
	GDFDENLNYP EQKVVTVGQF KIGLIHGHQV IPWGDMASLA LLQRQFDVDI LISGHTHKFE
	AFEHENKFYI NPGSATGAYN ALETNIIPSF VLMDIQASTV VTYVYQLIGD DVKVERIEYK KP
	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-or-the-art algorithm used for plasmid design (Gene synthesis).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3096295 | 10/08/2024 | Copyright antibodies-online. All rights reserved. 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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	VPS29
Alternative Name:	VPS29 (VPS29 Products)
Background:	Vacuolar protein sorting-associated protein 29 (hVPS29) (PEP11 homolog) (Vesicle protein sorting 29),FUNCTION: Acts as a component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into

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the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane
involves RAB7A and SNX3. The SNX-BAR retromer mediates retrograde transport of cargo
proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-
plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the
retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway.
The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking
and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub
for other proteins, such as the WASH complex and TBC1D5. Required to regulate transcytosis
of the polymeric immunoglobulin receptor (plgR-plgA) (PubMed:15247922, PubMed:21725319,
PubMed:23563491). Acts also as component of the retriever complex. The retriever complex is
a heterotrimeric complex related to retromer cargo-selective complex (CSC) and essential for
retromer-independent retrieval and recycling of numerous cargos such as integrin alpha-5/beta-
1 (ITGA5:ITGB1) (PubMed:28892079). In the endosomes, retriever complex drives the retrieval
and recycling of NxxY-motif-containing cargo proteins by coupling to SNX17, a cargo essential
for the homeostatic maintenance of numerous cell surface proteins associated with processes
that include cell migration, cell adhesion, nutrient supply and cell signaling (PubMed:28892079).
The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH
complexes (PubMed:28892079). Involved in GLUT1 endosome-to-plasma membrane
trafficking, the function is dependent of association with ANKRD27 (PubMed:24856514).
{ECO:0000269 PubMed:24856514, ECO:0000269 PubMed:28892079,
ECO:0000303 PubMed:15247922, ECO:0000303 PubMed:21725319,
ECO:0000303 PubMed:23563491}., FUNCTION: (Microbial infection) The heterotrimeric
retromer cargo-selective complex (CSC) mediates the exit of human papillomavirus from the
early endosome and the delivery to the Golgi apparatus. {ECO:0000269 PubMed:25693203}.

Molecular Weight:	20.5 kDa
UniProt:	Q9UBQ0

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

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	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!
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.

Unlimited (if stored properly)

Expiry Date: