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# Datasheet for ABIN3095540 VIPAR Protein (AA 1-493) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	VIPAR
Protein Characteristics:	AA 1-493
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VIPAR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence:	MNRTKGDEEE YWNSSKFKAF TFDDEDDELS QLKESKRAVN SLRDFVDDDD DDDLERVSWS
	GEPVGSISWS IRETAGNSGS THEGREQLKS RNSFSSYAQL PKPTSTYSLS SFFRGRTRPG
	SFQSLSDALS DTPAKSYAPE LGRPKGEYRD YSNDWSPSDT VRRLRKGKVC SLERFRSLQD
	KLQLLEEAVS MHDGNVITAV LIFLKRTLSK EILFRELEVR QVALRHLIHF LKEIGDQKLL
	LDLFRFLDRT EELALSHYRE HLNIQDPDKR KEFLKTCVGL PFSAEDSAHI QDHYTLLERQ
	IIIEANDRHL ESAGQTEIFR KHPRKASILN MPLVTTLFYS CFYHYTEAEG TFSSPVNLKK
	TFKIPDKQYV LTALAARAKL RAWNDVDALF TTKNWLGYTK KRAPIGFHRV VEILHKNNAP
	VQILQEYVNL VEDVDTKLNL ATKFKCHDVV IDTYRDLKDR QQLLAYRSKV DKGSAEEEKI
	DALLSSSQIR WKN
	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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## Product Details

#### 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 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 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.

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

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Product Details	
	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:	VIPAR
Alternative Name:	VIPAS39 (VIPAR Products)
Background:	Spermatogenesis-defective protein 39 homolog (hSPE-39) (VPS33B-interacting protein in
	apical-basolateral polarity regulator) (VPS33B-interacting protein in polarity and apical
	restriction),FUNCTION: Proposed to be involved in endosomal maturation implicating in part
	VPS33B. In epithelial cells, the VPS33B:VIPAS39 complex may play a role in the apical RAB11A-
	dependent recycling pathway and in the maintenance of the apical-basolateral polarity
	(PubMed:20190753). May play a role in lysosomal trafficking, probably via association with the
	core HOPS complex in a discrete population of endosomes, the functions seems to be
	independent of VPS33B (PubMed:19109425). May play a role in vesicular trafficking during
	spermatogenesis (By similarity). May be involved in direct or indirect transcriptional regulation
	of E-cadherin (By similarity). {ECO:0000250 UniProtKB:Q23288,
	EC0:0000269 PubMed:19109425, EC0:0000269 PubMed:20190753}.
Molecular Weight:	57.0 kDa
UniProt:	Q9H9C1
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

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protein production are removed, leaving only the protein production machinery and the

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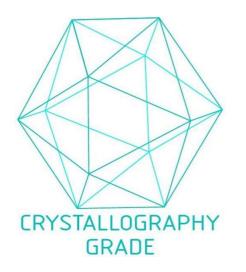
Application Details	
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	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without 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.
Expiry Date:	Unlimited (if stored properly)

### Images



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

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