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# Datasheet for ABIN3092814 GOLPH3 Protein (AA 1-298) (Strep Tag)





### Overview

Quantity:	1 mg
Target:	GOLPH3
Protein Characteristics:	AA 1-298
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GOLPH3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MTSLTQRSSG LVQRRTEASR NAADKERAAG GGAGSSEDDA QSRRDEQDDD DKGDSKETRL
	TLMEEVLLLG LKDREGYTSF WNDCISSGLR GCMLIELALR GRLQLEACGM RRKSLLTRKV
	ICKSDAPTGD VLLDEALKHV KETQPPETVQ NWIELLSGET WNPLKLHYQL RNVRERLAKN
	LVEKGVLTTE KQNFLLFDMT THPLTNNNIK QRLIKKVQEA VLDKWVNDPH RMDRRLLALI
	YLAHASDVLE NAFAPLLDEQ YDLATKRVRQ LLDLDPEVEC LKANTNEVLW AVVAAFTK
	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:	
Characteristics:	have a special request, please contact us.

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- 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	<ol> <li>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>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)

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## Product Details

Grade:

Crystallography grade

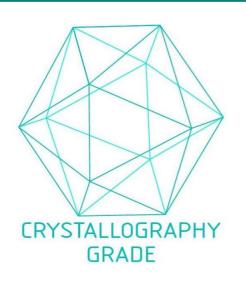
# Target Details

Target:	GOLPH3
Alternative Name:	GOLPH3 (GOLPH3 Products)
Background:	Golgi phosphoprotein 3 (Coat protein GPP34) (Mitochondrial DNA absence factor)
	(MIDAS),FUNCTION: Phosphatidylinositol-4-phosphate-binding protein that links Golgi
	membranes to the cytoskeleton and may participate in the tensile force required for vesicle
	budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could
	indirectly give its flattened shape to the Golgi apparatus. May also bind to the coatomer to
	regulate Golgi membrane trafficking. May play a role in anterograde transport from the Golgi to
	the plasma membrane and regulate secretion. Has also been involved in the control of the
	localization of Golgi enzymes through interaction with their cytoplasmic part. May play an
	indirect role in cell migration. Has also been involved in the modulation of mTOR signaling. May
	also be involved in the regulation of mitochondrial lipids biosynthesis.
	{ECO:0000269 PubMed:16263763, ECO:0000269 PubMed:19553991,
	EC0:0000269 PubMed:19837035, EC0:0000269 PubMed:22745132,
	EC0:0000269 PubMed:23027862, EC0:0000269 PubMed:23345592,
	EC0:0000269 PubMed:23500462}.
Molecular Weight:	33.8 kDa
UniProt:	Q9H4A6
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.
	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

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Application Details		
	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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