antibodies

# Datasheet for ABIN3106138 TMEM147 Protein (AA 1-224) (Strep Tag)



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Quantity:	1 mg
Target:	TMEM147
Protein Characteristics:	AA 1-224
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM147 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MTLFHFGNCF ALAYFPYFIT YKCSGLSEYN AFWKCVQAGV TYLFVQLCKM LFLATFFPTW
	EGGIYDFIGE FMKASVDVAD LIGLNLVMSR NAGKGEYKIM VAALGWATAE LIMSRCIPLW
	VGARGIEFDW KYIQMSIDSN ISLVHYIVAS AQVWMITRYD LYHTFRPAVL LLMFLSVYKA
	FVMETFVHLC SLGSWAALLA RAVVTGLLAL STLALYVAVV NVHS
	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:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> </ul>
	These proteins are normally active (enzymatically functional) as our customers have

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• 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®):
	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)

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## Product Details

### Grade:

Crystallography grade

## Target Details

Target:	TMEM147		
Alternative Name:	TMEM147 (TMEM147 Products)		
Background:	BOS complex subunit TMEM147 (Protein NIFIE 14) (Transmembrane protein 147),FUNCTION:		
	Component of the multi-pass translocon (MPT) complex that mediates insertion of multi-pass		
	membrane proteins into the lipid bilayer of membranes (PubMed:32820719,		
	PubMed:36261522). The MPT complex takes over after the SEC61 complex: following		
	membrane insertion of the first few transmembrane segments of proteins by the SEC61		
	complex, the MPT complex occludes the lateral gate of the SEC61 complex to promote		
	insertion of subsequent transmembrane regions (PubMed:36261522). Also acts as a negative		
	regulator of CHRM3 function, most likely by interfering with its trafficking to the cell membrane		
	(PubMed:21056967). Negatively regulates CHRM3-mediated calcium mobilization and		
	activation of RPS6KA1/p90RSK activity (PubMed:21056967). Regulates LBR localization to the		
	nucleus inner membrane (PubMed:32694168). {ECO:0000269 PubMed:21056967,		
	EC0:0000269 PubMed:32694168, EC0:0000269 PubMed:32820719,		
	ECO:0000269 PubMed:36261522}.		
Molecular Weight:	25.3 kDa		
Molecular Weight: UniProt:	25.3 kDa Q9BVK8		
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UniProt: Application Details			
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Application Details	
	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)