

Datasheet for ABIN3117447

## RNF145 Protein (AA 1-663) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	RNF145
Protein Characteristics:	AA 1-663
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF145 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MAAKEKLEAV LNVALRVPSI MLLDVLYRWD VSSFFQQIQR SSLSNNPLFQ YKYLALNMHY</p> <p>VGYILSVVLL TLPQHLVQL YLYFLTALL YAGHQISR DY VRSELEFAYE GPMYLEPLSM</p> <p>NRFTTALIGQ LVVCTLCSCV MKTKQIWLFS AHMLPLLARL CLVPLETIVI INKFAMIFTG</p> <p>LEVLYFLGSN LLVPYNLAKS AYRELVQVVE VYGLLALGMS LWNQLVVPVL FMVFWLVLFA</p> <p>LQIYSYFSTR DQPASRERLL FLFLTSIAEC CSTPYSLLGL VFTVSFVALG VLTLCCKFYLQ</p> <p>GYRAFMNDPA MNRGMTEGVT LLILAVQTGL IELQVVHRAF LLSIILFIV ASILQSMLEI</p> <p>ADPIVLALGA SRDKSLWKHF RAVSLCLFLL VFPAYMAYMI CQFFHMDFWL LIISSSILT</p> <p>SLQVLGTLFI YVLFMVVEEFR KEPVENMDDV IYYVNGTYRL LEFLVALCVV AYGVSSETIFG</p> <p>EWTVMGSMII FIHSYYNVWL RAQLGWKSFL LRRDAVNKIK SLPIATKEQL EKHNIDICAIC</p> <p>YQDMKSAVIT PCSHFFHAGC LKKWLYVQET CPLCHCHLKN SSQPLGLGTE PVLQPHAGAE</p> <p>QNVMFQEGTE PPGQEHTPGT RIQEGSRDNN EYIARRPDNQ EGAFDPKEYP HSAKDEAHPV ESA</p>

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

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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## Product Details

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Grade: custom-made

## Target Details

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Target: RNF145

Alternative Name: RNF145 ([RNF145 Products](#))

Background: RING finger protein 145 (EC 2.3.2.27),FUNCTION: E3 ubiquitin ligase that catalyzes the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. In response to bacterial infection, negatively regulates the phagocyte oxidative burst by controlling the turnover of the NADPH oxidase complex subunits. Promotes monoubiquitination of CYBA and 'Lys-48'-linked polyubiquitination and degradation of CYBB NADPH oxidase catalytic subunits, both essential for the generation of antimicrobial reactive oxygen species. Involved in the maintenance of cholesterol homeostasis. In response to high sterol concentrations ubiquitinates HMGCR, a rate-limiting enzyme in cholesterol biosynthesis, and targets it for degradation. The interaction with INSIG1 is required for this function. In addition, triggers ubiquitination of SCAP, likely inhibiting its transport to the Golgi apparatus and the subsequent processing/maturation of SREBP2, ultimately down-regulating cholesterol biosynthesis. {ECO:0000250|UniProtKB:Q5SWK7}.

Molecular Weight: 75.6 kDa

UniProt: [Q96MT1](#)

## Application Details

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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.

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Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months