

Datasheet for ABIN3122051

## RNF10 Protein (AA 1-804) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	RNF10
Protein Characteristics:	AA 1-804
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MPQSSPSAAA TASDMDKNSG SNSSSASSGS SKGQQPPRSA SAGPAGESKP KSDGKNSNGS</p> <p>KRYNRKREPS YPKNENFSNQ SRRSNSQKSK TFNKMPPQRG GGSSKPFSSS SNGGRRDEVA</p> <p>EAQRAEFSPA QFSGPKKINL NHLLNFTFEP RGQAGHFEGS GHGGWGKRNK WGHKPFNKEL</p> <p>FLQANCQFVV SEDQDYAAHF ADPDTLVNWD FVEQVRCISH EVPSCPICLY PPTAAKITRC</p> <p>GHIFCWACIL HYLSEKLTW SKCPICYSSV HKKDLKSVVA TESRQYAVGD TITMQLMKRE</p> <p>KGVLVALPKS KWNVDHPIN LGDEQLSQYS KLLASKEQV LHRVLEEKG ALEQQLAEEK</p> <p>HTPESCFIEA AIQEVKIREE ALSGVAGGGG EVTGVVALE HLVLMAPLAT ESAFQPRKGV</p> <p>LEYLSAFDDE AAQVCSLDPP GPLALPLVEE EEAVERSEAC EDAEVADDSL GEGTVGPEMS</p> <p>QEEPITKPGF TQLSSSPCYF FYQAEDGQHM FLHPVNVRL VREYGSLEQS PEKISATVVE</p> <p>IAGYSMSDV RQRHRYLSHL PLTCEFSICE LALQPPVVSF ETLEMFSDDI EKRKRQRQKK</p> <p>AREERRRRRR IEMEENKRQG RYPEVHIPLE NLQQFPAFNS YTCPSDSALG PTSTEGHGAL</p>

SLSPLSRSPG SHADFLLTPL SPTASQGSPS FCVGSLEDD S PFLSFAQMLR VGKAKADGWP  
KTAPKKDDNS LVPPAPVDSD GESDNSDRVP VPSFQNSFSQ AIEAAFMKLD TPATSDPLSE  
DRGGKKRKRRQ KQKLLFSTSV VHTK

**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

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## Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	RNF10
Alternative Name:	Rnf10 ( <a href="#">RNF10 Products</a> )
Background:	<p>E3 ubiquitin-protein ligase RNF10 (EC 2.3.2.27) (RING finger protein 10) (Sid 2705),FUNCTION: E3 ubiquitin-protein ligase that catalyzes monoubiquitination of 40S ribosomal proteins RPS2/us5 and RPS3/us3 in response to ribosome stalling. Part of a ribosome quality control that takes place when ribosomes have stalled during translation initiation (iRQC): RNF10 acts by mediating monoubiquitination of RPS2/us5 and RPS3/us3, promoting their degradation by the proteasome. Also promotes ubiquitination of 40S ribosomal proteins in response to ribosome stalling during translation elongation. The action of RNF10 in iRQC is counteracted by USP10 (By similarity). May also act as a transcriptional factor involved in the regulation of MAG (Myelin-associated glycoprotein) expression. Acts as a regulator of Schwann cell differentiation and myelination (By similarity). {ECO:0000250 UniProtKB:Q5XI59, ECO:0000250 UniProtKB:Q8N5U6}.</p>
Molecular Weight:	88.3 kDa
UniProt:	<a href="#">Q3UIW5</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

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. 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