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Datasheet for ABIN3095099 RNF4 Protein (AA 1-190) (Strep Tag)





Overview

Quantity:	1 mg
Target:	RNF4
Protein Characteristics:	AA 1-190
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MSTRKRRGGA INSRQAQKRT REATSTPEIS LEAEPIELVE TAGDEIVDLT CESLEPVVVD
	LTHNDSVVIV DERRRPRRNA RRLPQDHADS CVVSSDDEEL SRDRDVYVTT HTPRNARDEG
	ATGLRPSGTV SCPICMDGYS EIVQNGRLIV STECGHVFCS QCLRDSLKNA NTCPTCRKKI
	NHKRYHPIYI
	Sequence without tag. The proposed Strep-Tag is based on experience \ensuremath{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:
	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 permally estive (an typetically functional) as our systemate 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®):
	 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:	RNF4
Alternative Name:	RNF4 (RNF4 Products)
Background:	E3 ubiquitin-protein ligase RNF4 (EC 2.3.2.27) (RING finger protein 4) (Small nuclear ring finger
	protein) (Protein SNURF),FUNCTION: E3 ubiquitin-protein ligase which binds polysumoylated
	chains covalently attached to proteins and mediates 'Lys-6'-, 'Lys-11'-, 'Lys-48'- and 'Lys-63'-
	linked polyubiquitination of those substrates and their subsequent targeting to the proteasome
	for degradation (PubMed:18408734, PubMed:19307308, PubMed:35013556). Regulates the
	degradation of several proteins including PML and the transcriptional activator PEA3
	(PubMed:18408734, PubMed:19307308, PubMed:20943951). Involved in chromosome
	alignment and spindle assembly, it regulates the kinetochore CENPH-CENPI-CENPK complex
	by targeting polysumoylated CENPI to proteasomal degradation (PubMed:20212317).
	Regulates the cellular responses to hypoxia and heat shock through degradation of respectively
	EPAS1 and PARP1 (PubMed:19779455, PubMed:20026589). Alternatively, it may also bind
	DNA/nucleosomes and have a more direct role in the regulation of transcription for instance
	enhancing basal transcription and steroid receptor-mediated transcriptional activation
	(PubMed:12885770). Catalyzes ubiquitination of sumoylated PARP1 in response to PARP1
	trapping to chromatin, leading to PARP1 removal from chromatin by VCP/p97
	(PubMed:35013556). {ECO:0000269 PubMed:12885770, ECO:0000269 PubMed:18408734,
	EC0:0000269 PubMed:19307308, EC0:0000269 PubMed:19779455,
	EC0:0000269 PubMed:20026589, EC0:0000269 PubMed:20212317,
	ECO:0000269 PubMed:20943951, ECO:0000269 PubMed:35013556}.
Molecular Weight:	21.3 kDa
UniProt:	P78317
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway
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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Application Details

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.
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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!

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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