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Datasheet for ABIN3135018
RNF40 Protein (AA 1-1001) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RNF40
Protein Characteristics:	AA 1-1001
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF40 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Sequence: MSGLSNKRAA GDGGSGPPEK KMNREEKTTT TLIEPIRLGG ISSTEEMDSK VLQFKNKKLA
ERLEQRQACE DELRERIEKL EKQATDDAT LLIVNRYWAQ LDETVEALLQ CYENQRELSS
GTEVPGCQEG LTRDVIPRPD PGTSDLREPL PVQFRAPLSE PALAFVVALG ASSCEEVELQ
LQGRMEFSKA AVSRVVEASD RLQRQVEELC QRVYSRGDSE APGEVARVRT RELGRENRRRL
QDLATQLQEK HHRISLEYSE LQDKVTSTET KVLEMETTVE DLQWDIEKLR KREQKLNKHL
AEALEQLNSG YYVSGSSTGF QGGQITLSMQ KFEMLNAELE ENQELANSRM AELEKLQAEI
QGAVRTNERL KVALRSLPEE VVRETGEYRM LQAQFSLLYN ESLQVKTQLD EARGLLLASK
NSHLRHIEHM EDELGLQKK LRTEVIQLED TLAQVRKEYE MLRIEFEQNL AANEQAGPIN
REMRHLISSL QNHNLKGD AQRYKRKLRE VQAEIGKLRA QASGSSHCIPTLSHPDDPGL
NALAPGKEDS GPGPGGTPDC KKEMALLAGA TSATSSIKKE ELVSSEDDAQ ALTPVTQGLP
SRGREPEARP KRELREREGP SLGPPPAAST LSRADREKAK VEEAKRKESE LLKGLRAELK
KAQESQKEMK LLLDMYKSAP KEQRDKVQLM AERKAKAEV DELRSRIREL EERDRRESKK

IADEDALRRI RQAEEQIEHL QRKLGATKQE EEALLSEMDV TGQAFEDMQE QNGRLLQQLR
EKDDANFKLM SERIKANQIH KLLREEKDEL GEQVLGLKSQ VDAQLLTVQK LEEKERALQG
SLGGVEKELT LRSQALELNK RKAVEAAQLA EDLKVQLEHV QTRLREIQPC LAESRAAREK
ESFNLKRAQE DISRLRRKLE KQRKVEVYAD ADEILQEEIK EYKARLTCPC CNTRKKDAVL
TKCFHVFCFE CVRGRYEARQ RKCPKCNAAF GAHDFHRVYI S

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:

- 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 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

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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 style="list-style-type: none">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)

Target Details

Target:	RNF40
Alternative Name:	Rnf40 (RNF40 Products)
Background:	E3 ubiquitin-protein ligase BRE1B (BRE1-B) (EC 2.3.2.27) (RING finger protein 40) (RING-type E3 ubiquitin transferase BRE1B),FUNCTION: Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B, reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. {ECO:0000250 UniProtKB:O75150}.
Molecular Weight:	114.0 kDa
UniProt:	Q3U319

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.
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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 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!</p>
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)