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Datasheet for ABIN3137003
RRBP1 Protein (AA 1-1605) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RRBP1
Protein Characteristics:	AA 1-1605
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RRBP1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence: MDIYDTQLG VVVFGGFMVV SAIGIFLVST FSMKETS YEE ALANQRKEMA KTHHQKGEKK
 KKEKTVEKKG KTKKKKEEKP N GPIEHDLDP NVTIILKEPV RVS AVAVAPT SVHSSVGH TP
 IATVPAMPQE KLASSPKDRK KKEKKVAKVE PAVSSIVNSI QVLASKSAIL EATPKEVPMV
 AVPPVGSKAS SPATSSQGKK GGAQNQAKK GGAQNQGKK GGAQNQAKK GGAQNQAKK
 GGAQNQGKK GGAQNQAKK GGGQNQAKK GGAQNQGKK GGAQNQGKK GGAQNQAKK
 GGAQNQAKK GGAQNQGKK GGAQNQSKK GGAQNQAKK GGGQNQAKK GGAQNQAKK
 GGAQNQAKK GEGVQNQAKK GVEGANQNGK KGEANQNAK KEGGGQNQT KEGEPQNQGK
 KGEAAQKQDK KIEGANQNGK KPEGTSNQGK KGEGANQNGK KGEANQNAK KGEANQNAK
 KEGGGQNQAK KGEANQNAK KGEANQNAK KEGVQNQAK KVEGANQNG KKGEANQNA
 KKGGGGNQT KKGGEPQNG KKGEAAQKD KKIEGANNG KKPEGTSNQG KKGEANNG
 KKGEANNG KKGEANNG KKGEANNG KKGEANNG KKGEANNG KKGEANNG
 KKGGEPQNA KKGEANNG KKGEANNG KKGEANNG KKAEGVQSQS KKGGTQNG

KKGDGNPNQG KKGEGASNQN RKTDTVANQG TKQEGVSNQV KKSEGSPNQG KKAEGAPNQG
KKKDGSPSQA KKVDAANQG KKSEMAPAQG QKASMVQSQE APKQDAPAKK KSGSRKKGEP
GPPDCDGPLF LPYKTLVSTV GSMVFSEGEA QRLIEILSEK TGVIQDTWHK ATQKGDPAI
LKRQLQEKEK LLATEQEDAA VAKSKLRELN KEMASEKAKA AAGEAKVKKQ LVAREQEIAA
VQARMQASYR DHVKEVQQLQ GKIRTLQEQL ENGPNTQLAR LQQENSILRD ALNQATSQVE
SKQNTLAKL RQELSKVNKE LVEKSEASRQ EEQQRKALEA KAATFEKQVL QLQASHKESE
EALQKRLEEV TREL CRAQTS HANLRADA EK AQEQQRVAE LHSKLSQSEV EVKSKCEELS
SLHGQLKEAR AENSQLTERI RSIEALLEAG QAQDTQASHA EANQQQTRLK ELESQVSCLE
KETSELKEAM EQQKGNNDL REKNWKAMEA LALAERACEE KLRSLTQAKE ESEKQLHLAE
AQTKETLLAL LPGLSISAHQ NYAEWLQEFK EKGSELLKKP PTLPSMDIV LKLREAEETQ
NSLQAECDQY RTILAE TEGM LKDLQKSV EE EERVWKAKVG AAEEELHKSR VTVKHLEDIV
EKLKGELESS DQVREHTSHL EAELEKHMAA ASAEQCQNYAK EVAGLRQLLL ESQSQLDEAK
SEAQKQSD EL ALVRQQLSDM RSHVEDGDVA GSPAVPPAEQ DPMKLTQLE RTEATLEAEQ
TRRQKLTA EF EEAQRTACRI QEELEKLRAA GPLESSGKEE ITQLKERLEK EKRLTSDLGR
AAIKLQELLK TTQEQLTKEK DTVKKLQEQL GKAEDGSSSK EGTSV

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-

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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®): <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:	RRBP1
Alternative Name:	Rrbp1 (RRBP1 Products)
Background:	Ribosome-binding protein 1 (Ribosome receptor protein) (RRp) (mRRp),FUNCTION: Acts as a ribosome receptor and mediates interaction between the ribosome and the endoplasmic reticulum membrane. {ECO:0000250}.
Molecular Weight:	172.9 kDa
UniProt:	Q99PL5

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 *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!

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)
