Datasheet for ABIN3108852

RTL1 Protein (AA 1-1358) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	RTL1
Protein Characteristics:	AA 1-1358
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTL1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MIEPSEDSFE TMMEHKNPSS KQMESSEGSS NTTEATSGSG VRGEAGPASG PAQEKKEPPS GPLQEMEELP TDLLQDMEEP SSGPRKEIED PPNDLLQDLE ESCNGSHQAR GDPLSGASDR MKEASVNPSG AREEQEAHTD LKESGREETP QEQNQTEHST AELMAMVRSI ISLYFRMQDL KEQQRVAEEI LIKGINAGQL PAPKHFSGDR REFHEFIVLC QLTLQSYPRM FYNDRLRVGY VINHLSGLAL EWAKALLQEN SPLIGDFPAF LEAMSEVFEY RQALRVAEEA MFTIRQGGRS ATEYIDEFQS LVPILGWPDE VLQAHLCQGL NEEIRHYLFR VPQPDSLDSL IVLILQIEEK LAERRAMLRL PPEARPRNLT WIDSPAPERW MVSSWLPSEV HPDINRAHLF LLLMVRVNPY HSVAVQALVD SGADGNFMDE KFAQEHYVEL YEKPYPQPVQ SVDGSLIGNE PVWLYTEPLV CIHQNHQESI EFDIVPSPNF SVVLGIRWLR VHAPEVDWIK GRCTFHSPYC LKNCFRPPPP CIALERHGMS LLPGLPHPYS DLADVFNPKE ADDETSDQPS SDGSDDLSES EPSELQQAGD SDHSETFYEC PSTAPWEPVG ARMQERARLQ EEYWDLQDML TNRQDYIQMI PELFDQLHGA EWFTKLELRG TIVEESVNGH RTEDVWKAAF GLELEEMKSY QPFALSPDPI IPQNVIHFIL

KDMLGFFVLS YGQEVLIYSM SQEEHLHHVR QVLVRFRHHN VYCSLDKSQF HRQTVEFLGF VVTPKGVKLN KNVMTIITGY PTPGSKLSLR NFIEFVFPYR HFVERFSIIA EPLVRQLLSS YQFYWGVEEQ EAFECLKRAF RKAPLLHHPK PQNPFYLETG VTGTALHASL IQIDDQTGKR ACCAFYSRNI SPIEVEYSQA EMKILPIRAA FMVWCRYLEN TEEPIMILLN TEDLASLNND RLTVLLPGHW VFFFSHFNFD VMELPEQDGG RALPPVRNLR WRRAFQRNTA ARQTLLLASR GFPRDPSTES GEEENEEQDE LNEQILRQEL LAMIPIDQIL NSFLAHFSMA QIRAVILHFF RGLLYWKNTL ALAAILVLLR VRQCLSLRPA PAMRVARPQP QRSLRLILDS SLIAGSSITT AITQLLTQMP ALVGANTIPA QELAELFLGP GRWQRNALHS QAHRGLQFTP GFWLTLCEFF GVRVTPQEGH LPALRQNRYL ELHVVGDEDV VLREALQDDL QRYRQCGLHD GLQDTSQDKQ DNDVQEAPPS HTAATHPPRP RHLMDPQVLE FLGSRLLHIH SADGQLHLLS REQAARALSQ FLTLIYRRAL PIPAWESQPR EQARLEELPD EDEDANLD

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

Product Details

	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®): 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)
Grade:	Crystallography grade

Target Details

Target:	RTL1
Alternative Name:	RTL1 (RTL1 Products)
Background:	Retrotransposon-like protein 1 (Mammalian retrotransposon derived protein 1) (Paternally expressed gene 11 protein) (Retrotransposon-derived protein PEG11),FUNCTION: Plays an essential role in capillaries endothelial cells for the maintenance of feto-maternal interface and for development of the placenta. {ECO:0000250}.
Molecular Weight:	155.0 kDa
UniProt:	A6NKG5

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

Application Details

	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)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

