

Datasheet for ABIN3108852

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



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### Overview

Quantity:	250 µg
Target:	RTL1
Protein Characteristics:	AA 1-1358
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTL1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p> MIEPSEDSFE TMMEHKNPSS KQMESSEGSS NTTEATSGSG VRGEAGPASG PAQEKKEPPS  GPLQEMEELP TDLLQDMEEP SSGPRKEIED PPNDLLQDLE ESCNGSHQAR GDPLSGASDR  MKEASVNPSPG AREEQEAHTD LKESGREETP QEQNQTEHST AELMAMVRSI ISLYFRMQDL  KEQQRVAEEI LIKGINAGQL PAPKHFSGDR REFHEFIVLC QLTLQSYPRM FYNDRLRVGY  VINHLGLAL EWAKALLQEN SPLIGDFPAF LEAMSEVFEY RQALRVAAEA MFTIRQGGRS  ATEYIDEFQS LVPILGWPDE VLQAHLCQGL NEEIRHYLFR VPQPDSLDSL IVLILQIEEK  LAERRAMLRL PPEARPRNLT WIDSPAPERW MVSSWLPSEV HPDINRAHLF LLLMVRVNPY  HSVAVQALVD SGADGNFMDE KFAQEHYVEL YEKYPQPVQ SVDGSLIGNE PVWLYTEPLV  CIHQNHQESI EFDIVSPNF SVVLGIRWLR VHAPEVDWIK GRCTFHSPYC LKNCFRPPPP  CIALERHGMS LLPGLPHPYS DLADVFNPKA ADDETSQDPS SDGSDDLSES EPSELQQAGD  SDHSETFYEC PSTAPWEPVG ARMQERARLQ EEWDLQDML TNRQDYIQMI PELFDQLHGA </p>

EWFTKLELRG TIVEESVNGH RTEDVWKA AF GLELEEMKSY QPFALSPDPI IPQNVHIFIL  
KDMLGFFVLS YGQEVLIYSM SQEEHLHHVR QVLVRFRRHN VYCSLDKSQF HRQTVEFLGF  
VWTPKGVKLN KNVMTIITGY PTPGSKLSLR NFIEFVFPYR HFVERFSIIA EPLVRQLLSS  
YQFYWGVVEEQ 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 QELAEFLGP GRWQRNALHS QAHRGLQFTP GFWLTLCEFF  
GVRVTPQEGH LPALRQNRYL ELHVVGDEDV VLREALQDDL QRYRQCGLHD GLQDTSQDKQ  
DNDVQEAPPS HTAATHPPRP RHLMDPQVLE FLGSRLLIH SADGQLHLLS REQAARALSQ  
FLTLYRRAL 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.**

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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

## Product Details

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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.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

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Target:	RTL1
Alternative Name:	RTL1 ( <a href="#">RTL1 Products</a> )
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:	<a href="#">A6NKG5</a>

## Application Details

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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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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months