

# Datasheet for ABIN3095158 RUSC1 Protein (AA 1-902) (Strep Tag)



Overview

Quantity:	250 µg
Target:	RUSC1
Protein Characteristics:	AA 1-902
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUSC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MLSPQRALLC NLNHIHLQHV SLGLHLSRRP ELQEGPLSTP PPPGDTGGKE SRGPCSGTLV
	DANSNSPAVP CRCCQEHGPG LENRQDPSQE EEGAASPSDP GCSSSLSSCS DLSPDESPVS
	VYLRDLPGDE DAHPQPSIIP LEQGSPLASA GPGTCSPDSF CCSPDSCSGA SSSPDPGLDS
	NCNALTTCQD VPSPGLEEED ERAEQDLPTS ELLEADDGKI DAGKTEPSWK INPIWKIDTE
	KTKAEWKTTE NNNTGWKNNG NVNSSWKSEP EKFDSGWKTN TRITDSGSKT DAGKIDGGWR
	SDVSEEPVPH RTITSFHELA QKRKRGPGLP LVPQAKKDRS DWLIVFSPDT ELPPSGSPGG
	SSAPPREVTT FKELRSRSRA PAPPVPPRDP PVGWALVPPR PPPPPVPPRR KKNRPGLQPI
	AEGQSEEGRA VSPAAGEEAP AAKEPGAQAG LEVRSSWSFA GVPGAQRLWM AEAQSGTGQL
	QEQKKGLLIA VSVSVDKIIS HFGAARNLVQ KAQLGDSRLS PDVGHLVLTT LCPALHALVA
	DGLKPFRKDL ITGQRRSSPW SVVEASVKPG SSTRSLGTLY SQVSRLAPLS SSRSRFHAFI
	LGLLNTKQLE LWFSSLQEDA GLLSLLYLPT GFFSLARGGC PSLSTELLLL LQPLSVLTFH

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3095158 | 02/26/2025 | Copyright antibodies-online. All rights reserved. LDLLFEHHHH LPLGPPQAPA PPGPPPALQQ TMQAMLHFGG RLAQSLRGTS KEAASDPSDS PNLPTPGSWW EQLTQASRVY ASGGTEGFPL SRWAPGRHGT AAEEGAQERP LPTDEMAPGR GLWLGRLFGV PGGPAENENG ALKSRRPSSW LPPTVSVLAL VKRGAPPEMP SPQELEASAP RMVQTHRAVR ALCDHTAARP DQLSFRRGEV LRVITTVDED WLRCGRDGME GLVPVGYTSL VL 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 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 posttranslational 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Product Details	
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	
Target:	RUSC1
Alternative Name:	RUSC1 (RUSC1 Products)
Background:	AP-4 complex accessory subunit RUSC1 (New molecule containing SH3 at the carboxy- terminus) (Nesca) (RUN and SH3 domain-containing protein 1),FUNCTION: Associates with the adapter-like complex 4 (AP-4) and may therefore play a role in vesicular trafficking of proteins at the trans-Golgi network (PubMed:30262884). Signaling adapter which plays a role in neuronal differentiation (PubMed:15024033). Involved in regulation of NGF-dependent neurite outgrowth (PubMed:15024033). May play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins (By similarity). Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK (PubMed:15024033). Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF- kappa-B pathway (PubMed:19365808). {ECO:0000250 UniProtKB:Q8BG26, ECO:0000269 PubMed:15024033, ECO:0000269 PubMed:19365808, ECO:0000269 PubMed:30262884}.
Molecular Weight: UniProt:	96.4 kDa Q9BVN2
UNIPTOL.	Q9DVINZ
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

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Application Details	
	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months