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Datasheet for ABIN3136008
RUSC2 Protein (AA 1-1514) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RUSC2
Protein Characteristics:	AA 1-1514
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUSC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MDSPPKLTGE TLIVHHIPLV HCQVPDRQCC GGAGGGGGGT RANPFCPPPEL GLTQPDHDLG
QADSLLYPSL HSAPGAPTGS SDSVKRSRSD GRGPGAPKRH NPFLVQEGVG ETGLGDLHDS
STGDSVTQQS FHLHSASQPF HLSSFQLPPS GPGQGRPWGA THSRPGVVEG QEQDPATALG
TQCSTSHCCR PELEAERMEL DECGGHGGSG SGGGTSDISG FSFEQEWKIS SDESPRHPGR
SGSGTQHCHC SSTSSQSEAA DQSMGYVSDS SCNSSDGLV TFSTLYNKMV SSSRANLNSV
PQSCSDSSFC SHADPGAFYL DLQPSPAESR MSCESHHPEN GDREEGCGCP HVSSPELDAN
CNAYHPHSEP CPAVADLTAC FQSARLVVA TQNYKLVTC DLSSQSSPSP AGSSITSCSE
EHTKISPPPG PCDPDPNQP SEYFLFQKPD IQPEEQEAVG SPAEAATAMG PTVLEGQVYT
NTSPPNLNTG RQRSRYSYDRS LERSPPVRLG SLERMLSCPVL RLSEGAALA GPASPPRRVT
SFAELAKGRK KAAGSGSPPL RASVGDSSQE FSPIQEAQQD RAAPLDEGTR CSHSLPSLPL
GPSLDLLGPE PWSTPVCQGS QSSEMPLPSL RAAGQGPLAQ LMDPGPAFSG SPATSHTQRD
SRARADGGGT ESRPVLRYSK EQRPTTLPIQ PFVFQHHFPK QLAKARALHS LSQLYSLSGC

SRAQQPAPLV ISTAQGPAPA PSGEPQPFTS QASGRGARNA GPPEPETSRRS PLGSYSPVRS
AGPFGSSTDS SASTSCSPPP EQGTAADSVS PWSHTCPPTV RPATSQQPPK EDQKIPTLAE
YRLHGTGSLP PLGSWRSGFT RAESLVRGGG EGSMANRPNN ANHLSPQALK WREYRRKNPL
GPPGLSGSLD RRPPEARLAR RNPIFEFPGS FGTTSHLNCR LNGQISKPLS LTCPDLQDPF
SLTEKPPAEF CLSPDGNSEA ISIDILQKKG LVKAVNTAVD LIVAHFGTSR DPGVKAKLGN
SSVSPNVGHL VLKYLCPAVQ AVLEDGLKAF VLDVIIGQRK NMPWSVVEAS TQLGPSTKVL
HGLYNKVSQF PELTSHTMRF NAFILGLLNI RSLEFWFNHL YNHEDIQTH YQPWGFLRAA
HTVCPGLFEE LLLLLQPLAL LPFSLDLLFQ HRLQSGRQQ RQHKELLRVS QDLLLSAHST
LQLARSRQE GPGDMDRVAP GERVKGVGAS EGGEDEEDA EEVAVVAGSS DHGKWARGGQ
AGWWYQLMQS SQVYIDGTAE GSRFPRSSSS SSGSGSEKKK GVGSGGPSQA PPPPPREGVV
EGAEACPAPE EALGQERGWP FWMGSPDSV LAELRRSRER EGPVAPPTEN EEGTAEPSG
GIKWGHLFGS RKSQREARPT NRLPSDWLSL DKSVFQLVAQ TMGARREPEP RENLQESHPP
AVPSKPPCEV QALCHHLATG PGQLSFHKGD ILRVLGPARG DWLRCSRGPD TGLVPLAYVT
LPPTSSPPG SSQN

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.

Product Details

- 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.
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Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
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Target Details

Target:	RUSC2
Alternative Name:	Rusc2 (RUSC2 Products)
Background:	AP-4 complex accessory subunit RUSC2 (Interacting protein of Rab1) (Iporin) (RUN and SH3 domain-containing protein 2),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. {ECO:0000250 UniProtKB:Q8N2Y8}.
Molecular Weight:	161.1 kDa
UniProt:	Q80U22

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)