

Datasheet for ABIN3133002

## SRP54 Protein (AA 1-504) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SRP54
Protein Characteristics:	AA 1-504
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRP54 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MVLADLGRKI TSALRSLNSA TIINEEVLNA MLKEVCTALL EADVNIKLVK QLRENVKSAI  DLEEMASGLN KRKMIQHAFV KELVKLVDPG VKAWTPTKGK QNVIMFVGLQ GSGKTTTCSK  LAYYYQRKGW KTCLICADTF RAGAFDQLKQ NATKARIPFY GSYTEMDPVI IASEGVEKFK  NENFEIIVD TSGRHKQEDS LFEEMLQVSN AIQPDNIVYV MDASIGQACE AQAKAFKDKV  DVASVIVTKL DGHAKGGGAL SAVAATKSPI IFIGTGEHID DFEPFKTQPF ISKLLGMGDI  EGLIDKVNEL KLDDNEALIE KLKHGQFTLR DMYEQFQNM KMGPFSQLG MIPGFGTDFM  SKGNEQESMA RLKKLMTIMD SMNDQELDST DGAKVFSKQP GRIQRVARGS GVSTRDVQEL  LTQYTKFAQM VKKMGGIKGL FKGGDMSKNV SQSQMAKLNQ QMAKMMDPRV LHHMGGMAGL  QSMRQFQQG AAGNMKGMMG FNNM</p> <p><b>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</b></p>

### 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 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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#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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#### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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#### Grade:

custom-made

## Target Details

Target:	SRP54
Alternative Name:	Srp54 ( <a href="#">SRP54 Products</a> )
Background:	Signal recognition particle subunit SRP54 (EC 3.6.5.4) (Signal recognition particle 54 kDa protein),FUNCTION: Component of the signal recognition particle (SRP) complex, a ribonucleoprotein complex that mediates the cotranslational targeting of secretory and membrane proteins to the endoplasmic reticulum (ER) (By similarity). As part of the SRP complex, associates with the SRP receptor (SR) component SRPRA to target secretory proteins to the endoplasmic reticulum membrane (By similarity). Binds to the signal sequence of presecretory proteins when they emerge from the ribosomes (By similarity). Displays basal GTPase activity, and stimulates reciprocal GTPase activation of the SR subunit SRPRA (By similarity). Forms a guanosine 5'-triphosphate (GTP)-dependent complex with the SR subunit SRPRA (By similarity). SR compaction and GTPase mediated rearrangement of SR drive SRP-mediated cotranslational protein translocation into the ER (By similarity). Requires the presence of SRP9/SRP14 and/or SRP19 to stably interact with RNA (By similarity). Plays a role in proliferation and differentiation of granulocytic cells, neutrophils migration capacity and exocrine pancreas development (By similarity). {ECO:0000250 UniProtKB:P61010, ECO:0000250 UniProtKB:P61011}.
Molecular Weight:	55.7 kDa
UniProt:	<a href="#">P14576</a>
Pathways:	<a href="#">SARS-CoV-2 Protein Interactome</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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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.**

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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