

Datasheet for ABIN3136299

## SALL4 Protein (AA 1-1067) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SALL4
Protein Characteristics:	AA 1-1067
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SALL4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MSRRKQAKPQ HINWEEGQGE QPQQLPSPDL AEALAAEEPG APVNSPGNCD EASEDSIPVK</p> <p>RPRREDTHIC NKCCAEFFSL SEFMEHHKSC TKTPPVLIMN DSEGPVPSD FSRAALSHQL</p> <p>GSPSNKDSLQ ENGSSSGDLK KLGTDLSILYL KTEATQPSTP QDISYLPKGG VANTNVTLQA</p> <p>LRGTKVAVNQ RGAEAPMAPM PAAQGIPWVL EQILCLQQQQ LQQIQLTEQI RVQVNMWAAH</p> <p>ALHSGVAGAD TLKALSSHVS QQVSVSQQVS AAVALLSQKA SNPALSLDAL KQAKLPHASV</p> <p>PSAASPLSSG LTSFTLKPDP TRVLPNFVSR LPSALLPQTP GSVLLQSPFS AVTLDQSKKG</p> <p>KGKPQNLSAS ASVLDVKAKD EVVLGKHKCR YCPKVFGTDS SLQIHLRSHT GERPYVCPIC</p> <p>GHRFTTKGNL KVHLQRHPEV KANPQLLAEF QDKGAVSAAS HYALPVPVPA DESSLVDAE</p> <p>PVPVTGTPSL GLPQKL TSGP NSRDLMGGSL PNDMQPGPSP ESEAGLPLL GVGMIHNPPKA</p> <p>GGFQGTGAPE SGSETLKLQQ LVENIDKATT DPNECLICHR VLSCQSSLKM HYRTHTERP</p> <p>FQCKICGRAF STKGNL KTHL GVHRTNTTVK TQHSPICQK KFTNAVMLQQ HIRMHMGGQI</p>

PNTPLPESPC DFTAPEPVAV SENGASGVC QDDAAEGMEA EEVCSQDVPS GPSTVSLPVP  
SAHLASPSLG FSVLASLDTQ GKGALPALAL QRQSSRENS LEGGDTGPAN DSSLLVGDQE  
CQSRSPDATE TMCYQAVSPA NSQAGSVKSR SPEGHKAEGV ESCRVDTEGR TSLPPTFIRA  
QPTFVKVEVP GTFVGPPSMP SGMPPLLASQ PQPRRQAKQH CCTRCGKNFS SASALQIHER  
THTGEKPFVC NICGRAFTTK GNLKVHYMTH GANNNSARRG RKLAIENPMA ALSAEGKRAP  
EVFSKELLSP AVSVDPASWN QYTSVLNGL AMKTNEISVI QSGGIPTLPV SLGASSVVS  
GTISKLDGSQ TGVSMPSMSGN GEKLAVPDGM AKHQFPHFLE ENKIAVS

**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 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.

## Product Details

- 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

Target: SALL4

Alternative Name: Sall4 ([SALL4 Products](#))

Background: Sal-like protein 4 (Zinc finger protein SALL4),FUNCTION: Transcription factor with a key role in the maintenance and self-renewal of embryonic and hematopoietic stem cells. {ECO:0000250}.

Molecular Weight: 113.1 kDa

UniProt: [Q8BX22](#)

Pathways: [Stem Cell Maintenance](#), [Tube Formation](#)

## 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.

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## Application Details

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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 <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