

Datasheet for ABIN3095429

SCAF4 Protein (AA 1-1147) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	SCAF4
Protein Characteristics:	AA 1-1147
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SCAF4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MDAVNAFNQE LFSLMDMKPP ISRAKMILIT KAAIKAIKLY KHVQIVEKF IKKCKPEYKV</p> <p>PGLYVIDSIV RQSRHQFGTD KDVFGPRFSK NITATFYLY LCPSDEKSKI VRVLNLWQKN</p> <p>GVFKIEIQP LLDMAAGTSN AAPVAENVNTN NEGSPPPPVK VSSEPPTQAT PNSVPAVPQL</p> <p>PSSDAFAAVA QLFQTTQGQQ LQQILQTFQQ PPKPQSPALD NAVMAQVQAI TAQLKTTPTQ</p> <p>PSEQKAAFPP PEQKTAFDKK LLDRFDYDDE PEAVEESKKE DTTAVTTTAP AAAVPPAPTA</p> <p>TVPAAAAPAA ASPPPPQAPF GFPDGMQQP AYTQHQNMDQ FQPRMMGIQQ DPMHHQVPLP</p> <p>PNGQMPGFL LPTPPFPMA QPVIPTPPV QPFQASFQA QNEPLTQKPH QQEMEVEQPC</p> <p>IQEVKRHMSD NRKSRRSAS RSPKRRRSRS GSRRRSRHR RSRRSRDRR RHSPRSRSQE</p> <p>RRDREKERER RQKGLPQVKP ETASVCSTTL WVGQLDKRTT QQDVASLLEE FGPIESINMI</p> <p>PPRGCAIYIM VHRQDAYRAL QKLSRGNYKV NQKSIKAWA LNKGIKADYK QYWDVELGVT</p> <p>YIPWDKVKPE ELESFCEGGM LDSDTLNPDW KGIPKKPENE VAQNGGAETS HTEPVSPIPK</p>

PLPVPVPIIP VPAPITVPPP QVPPHQPGPP VVGALQPPAF TPPLGIPPP FGPGVPPPPP
PPPFRLRPGFN PMHLPPGFLP PGPPPPITPP VSIPPPHTPP ISIPNSTIAG INEDTTKDL
IGNPIPTVVS GARGNAESGD SVKMYGSAVP PAAPTNLPTP PVTQPVSLG TQGVAPGPVI
GLQAPSTGLL GARPGLIPLQ RPPGMPPPHL QRFPLMPPRP MPPHMMHRGP PPGPGGFAMP
PPHGMKGPPF PHGPFVRPGG MPGLGGPGPG PGGPEDRDGR QQPPQQPQQQ PQPQAPQQPQ
QQQQQQPPPS QPPPTQQQP QQFRNDNRQQ FNSGRDQERF GRRSFGNRVE NDRERYGNRN
DDRDNSNRDR REWGRRSPDR DRHRDLEERN RRSSGHRDRE RDSRDRESRR EKEEARGKEK
PEVTDRAAGN KTVEPPISQV GNVDTASELE KGVSEAAVLK PSEELPAEAT SSVEPEKDSG
SAAEAPR

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 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!

Product Details

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

Target: SCAF4

Alternative Name: SCAF4 ([SCAF4 Products](#))

Background: SR-related and CTD-associated factor 4 (CTD-binding SR-like protein RA4) (Splicing factor, arginine/serine-rich 15),FUNCTION: Anti-terminator protein required to prevent early mRNA termination during transcription (PubMed:31104839). Together with SCAF8, acts by suppressing the use of early, alternative poly(A) sites, thereby preventing the accumulation of non-functional truncated proteins (PubMed:31104839). Mechanistically, associates with the phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit (POLR2A), and subsequently binds nascent RNA upstream of early polyadenylation sites to prevent premature mRNA transcript cleavage and polyadenylation (PubMed:31104839). Independently of SCAF8, also acts as a suppressor of transcriptional readthrough (PubMed:31104839). {ECO:0000269|PubMed:31104839}.

Molecular Weight: 125.9 kDa

UniProt: [O95104](#)

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

Application Details

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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 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