

Datasheet for ABIN3092038

## DCAF5 Protein (AA 1-942) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	DCAF5
Protein Characteristics:	AA 1-942
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCAF5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKRRAGLGGS MRSVVGFLSQ RGLHGDPLLT QDFQRRRLRG CRNLYKKDLL GHFGCVNAIE</p> <p>FSNNGGQWL V SGGDDRRVLL WHMEQAIHSR VKPIQLKGEH HSNIFCLAFN SGNTKVFSGG</p> <p>NDEQVILHDV ESSETLDVFA HEDAVYGLSV SPVNDNIFAS SSDDGRVLIW DIRESPHGEP</p> <p>FCLANYPSAF HSMVFNPEP RLLATANSKE GVGLWDIRKP QSSLLRYGGN LSLQSAMSVR</p> <p>FNSNGTQLLA LRRRLPPVLY DIHSRLPVFQ FDNQGYFNSC TMKSCCFAGD RDQYILSGSD</p> <p>DFNLYMWRI P ADPEAGGIGR VVNGAFMVLK GHR SIVNQVR FNPHTYMICS SGVEKIIKIW</p> <p>SPYKQPGCTG DLDGRIEDDS RCLYTHEEYI SLVLNSGSGL SHDYANQSVQ EDPRMMAFFD</p> <p>SLVRREIEGW SSDSDSDLSE STILQLHAGV SERSGYTDSE SSASLPRSPPTVDESADNA</p> <p>FHLGPLRVTT TNTVASTPPT PTCEAASRQ QRLSALRRYQ DKRLLALSNE SDSEENVCEV</p> <p>ELDTDLFPRP RSPSPEDSS SSSSSSSSED EEELNERRAS TWQRNAMRRR QKTTREDKPS</p> <p>APIKPTNTYI GEDNYDYPQI KVDDLSSSPT SSPERSTSTL EIQPSRASPT SDIESVERKI</p>

YKAYKWLRYs YISYSNNKDG ETSLVtGEAD EGRAGTSHKD NPAPSSSKEA CLNIAMAQRN  
QDLpPEGCSK DTFKEETPRt PSNGPGHEHS SHAWAEVPEG TSQDTGNSGS VEHPFETKKL  
NGKALSSRAE EPPSPVPKA SGSTLNSGSG NCPRTQSDDS EERSLETICA NHNNGRLHPR  
PPHPHNNGQN LGELEVAYS SPGHSDTD RD NSSLTGTLLH KDCCGSEMAC ETPNAGTRED  
PTDTPATDSS RAVHGHSGLK RQRIELEDTD SENSsSEKKL KT

**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!

#### 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.

## 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:	DCAF5
Alternative Name:	DCAF5 ( <a href="#">DCAF5 Products</a> )
Background:	<p>DDB1- and CUL4-associated factor 5 (Breakpoint cluster region protein 2) (BCRP2) (WD repeat-containing protein 22),FUNCTION: Is a substrate receptor for the CUL4-DDB1 E3 ubiquitin-protein ligase complex (CRL4) (PubMed:29691401, PubMed:30442713). The complex CRL4-DCAF5 is involved in the ubiquitination of a set of methylated non-histone proteins, including SOX2, DNMT1 and E2F1 (PubMed:29691401, PubMed:30442713).</p> <p>{ECO:0000269 PubMed:16949367, ECO:0000269 PubMed:16964240, ECO:0000269 PubMed:29691401, ECO:0000269 PubMed:30442713}.</p>
Molecular Weight:	104.0 kDa
UniProt:	<a href="#">Q96JK2</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 something that functions like a cell, but without the constraints of a living system - all that's</p>

Application Details

	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