

# Datasheet for ABIN3082768

# KRTAP4-3 Protein (AA 1-195) (Strep Tag)



### Overview

Quantity:	1 mg
Target:	KRTAP4-3
Protein Characteristics:	AA 1-195
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KRTAP4-3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Brand:	AliCE®
Brand: Sequence:	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC
	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC
	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC
	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCQTTCC RPSCCISSCY RPQCCQPSCC RPACCISSCC HPSCCVSSCR CPFSCPTTCC
	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCQTTCC RPSCCISSCY RPQCCQPSCC RPACCISSCC HPSCCVSSCR CPFSCPTTCC RTTCFHPICC GSSCC
	MVSSCCGSVC SDQSCGQGLG QESCCRPSCC QTTCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCRTTCC RPSCCISSCC RPSCCISSCC KPSCCQTTCC RPSCCISSCY RPQCCQPSCC RPACCISSCC HPSCCVSSCR CPFSCPTTCC RTTCFHPICC GSSCC  Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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 posttranslational 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.

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:	KRTAP4-3
Alternative Name:	KRTAP4-3
Background:	Keratin-associated protein 4-3 (Keratin-associated protein 4.3) (Ultrahigh sulfur keratin-

Handling Advice:

Storage Comment:

Storage:

Expiry Date:

rarget Betane	
	associated protein 4.3),FUNCTION: In the hair cortex, hair keratin intermediate filaments are
	embedded in an interfilamentous matrix, consisting of hair keratin-associated proteins
	(KRTAP), which are essential for the formation of a rigid and resistant hair shaft through their
	extensive disulfide bond cross-linking with abundant cysteine residues of hair keratins. The
	matrix proteins include the high-sulfur and high-glycine-tyrosine keratins.
Molecular Weight:	20.5 kDa
UniProt:	Q9BYR4
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 production
	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.  Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
	Standard Storage Barret. 1 Bo pr. 7. 1, 10 % Glyceror Inight affer depending on protein.
Llandlina Advisa:	Avoid reported from the worlds

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn | International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com | Page 3/3 | Product datasheet for ABIN3082768 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Avoid repeated freeze-thaw cycles.

-80 °C

Store at -80°C.

12 months