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Datasheet for ABIN3128404 POLR3K Protein (AA 1-108) (Strep Tag)



Overview

000101000	
Quantity:	1 mg
Target:	POLR3K
Protein Characteristics:	AA 1-108
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3K protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MLLFCPGCGN GLIVEEGQRC HRFACNTCPY VHNITRKVTN RKYPKLKEVD DVLGGAAAWE
	NVDSTAEPCP KCEHPRAYFM QLQTRSADEP MTTFYKCCNA QCGHRWRD
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressio
	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 by multi-step, protein-specific process to ensure correct folding and modification. These proteins are normally active (enzymatically functional) as our customers have
	reported (not tested by us and not guaranteed).

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 1/4 | Product datasheet for ABIN3128404 | 04/30/2024 | Copyright antibodies-online. All rights reserved. This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	\ge 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

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Target Details	
Target:	POLR3K
Alternative Name:	Polr3k (POLR3K Products)
Background:	DNA-directed RNA polymerase III subunit RPC10 (RNA polymerase III subunit C10) (DNA- directed RNA polymerase III subunit K) (RNA polymerase III subunit C11) (RPC11),FUNCTION: Core component of RNA polymerase III (Pol III) which synthesizes small non-coding RNAs using the four ribonucleoside triphosphates as substrates (By similarity). Can mediate Pol I proofreading of the nascent RNA transcript. Anchors into the Pol III active site to constantly monitor transcription fidelity, cleaves mis-incorporated 5'-ribonucleotides and restarts the transcription process. Once Pol III reaches the poly(dT) termination signal, can induce Pol III clamp opening and transcription termination (By similarity). Pol III plays an important role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as a nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF-kappa-B through the RIG-I pathway (By similarity). {ECO:0000250 UniProtKB:Q04307, ECO:0000250 UniProtKB:Q9Y2Y1}.
Molecular Weight:	12.3 kDa
UniProt:	Q9CQZ7
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

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)