

## Datasheet for ABIN3095111 POLR3C Protein (AA 1-534) (Strep Tag)



Overview

Quantity:	250 µg
Target:	POLR3C
Protein Characteristics:	AA 1-534
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MTQAEIKLCS LLLQEHFGEI VEKIGVHLIR TGSQPLRVIA HDTGTSLDQV KKALCVLVQH
	NLVSYQVHKR GVVEYEAQCS RVLRMLRYPR YIYTTKTLYS DTGELIVEEL LLNGKLTMSA
	VVKKVADRLT ETMEDGKTMD YAEVSNTFVR LADTHFVQRC PSVPTTENSD PGPPPPAPTL
	VINEKDMYLV PKLSLIGKGK RRRSSDEDAA GEPKAKRPKY TTDNKEPIPD DGIYWQANLD
	RFHQHFRDQA IVSAVANRMD QTSSEIVRTM LRMSEITTSS SAPFTQPLSS NEIFRSLPVG
	YNISKQVLDQ YLTLLADDPL EFVGKSGDSG GGMYVINLHK ALASLATATL ESVVQERFGS
	RCARIFRLVL QKKHIEQKQV EDFAMIPAKE AKDMLYKMLS ENFMSLQEIP KTPDHAPSRT
	FYLYTVNILS AARMLLHRCY KSIANLIERR QFETKENKRL LEKSQRVEAI IASMQATGAE
	EAQLQEIEEM ITAPERQQLE TLKRNVNKLD ASEIQVDETI FLLESYIECT MKRQ
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	<ul> <li>Concentration:</li> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
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

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Target Details	
Target:	POLR3C
Alternative Name:	POLR3C (POLR3C Products)
Background:	DNA-directed RNA polymerase III subunit RPC3 (RNA polymerase III subunit C3) (DNA-directed
	RNA polymerase III subunit C) (RNA polymerase III 62 kDa subunit) (RPC62),FUNCTION: DNA-
	dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four
	ribonucleoside triphosphates as substrates (PubMed:20413673, PubMed:35637192,
	PubMed:34675218, PubMed:33558764, PubMed:33558766). Specific peripheric component of
	RNA polymerase III (Pol III) which synthesizes small non-coding RNAs including 5S rRNA,
	snRNAs, tRNAs and miRNAs from at least 500 distinct genomic loci (PubMed:20413673,
	PubMed:35637192, PubMed:33558764, PubMed:33558766). Part of POLR3C/RPC3-
	POLR3F/RPC6-POLR3G/RPC7 heterotrimer, coordinates the dynamics of Pol III stalk and clamp
	modules during the transition from apo to elongation state (PubMed:33558764,
	PubMed:33558766). Pol III plays a key 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
	(PubMed:19609254, PubMed:19631370). Preferentially binds single-stranded DNA (ssDNA) in a
	sequence-independent manner (PubMed:21358628). {ECO:0000269 PubMed:19609254,
	ECO:0000269 PubMed:19631370, ECO:0000269 PubMed:20413673,
	EC0:0000269 PubMed:21358628, EC0:0000269 PubMed:33558764,
	ECO:0000269 PubMed:33558766, ECO:0000269 PubMed:34675218,
	ECO:0000269 PubMed:35637192}.
Molecular Weight:	60.6 kDa
UniProt:	Q9BUI4
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

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	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!
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