Datasheet for ABIN7555276

POLR3C Protein (AA 1-534) (His tag)

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Overview

Quantity:	1 mg
Target:	POLR3C
Protein Characteristics:	AA 1-534
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3C protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant POLR3C Protein expressed in mammalian cells.
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 Purification-Tag is based on experiences 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.**

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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

Target Details

	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, ECO:0000269|PubMed:21358628, ECO: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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months