Datasheet for ABIN7551552

POLR3K Protein (AA 1-108) (His tag)

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Overview

Quantity:	1 mg
Target:	POLR3K
Protein Characteristics:	AA 1-108
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3K protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant POLR3K Protein expressed in mammalian cells.
Sequence:	MLLFCPGCGN GLIVEEGQRC HRFACNTCPY VHNITRKVTN RKYPKLKEVD DVLGGAAAWE NVDSTAESCP KCEHPRAYFM QLQTRSADEP MTTFYKCCNA QCGHRWRD **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.**
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.

Product Details

	• 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:	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 12.5 kDa subunit) (RPC12.5) (RNA polymerase III subunit C11) (HsC11p) (RPC11) (hRPC11),FUNCTION: Core component of RNA polymerase III (Pol III) which synthesizes small non-coding RNAs using the four ribonucleoside triphosphates as substrates (PubMed:20413673, PubMed:33335104, PubMed:33674783, PubMed:34675218, PubMed:33558764, PubMed:33558766, PubMed:30584594). 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 (PubMed:33335104, PubMed:33674783, PubMed:34675218, PubMed:33558764, PubMed:33558766) (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 (PubMed:19631370, PubMed:19609254). {ECO:0000250|UniProtKB:Q04307, ECO:0000269|PubMed:19609254,

Target Details

	ECO:0000269|PubMed:19631370, ECO:0000269|PubMed:20413673, ECO:0000269|PubMed:30584594, ECO:0000269|PubMed:33335104, ECO:0000269|PubMed:33558764, ECO:0000269|PubMed:33558766, ECO:0000269|PubMed:33674783, ECO:0000269|PubMed:34675218}.
Molecular Weight:	12.3 kDa
UniProt:	Q9Y2Y1

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