Datasheet for ABIN7555252

POLR3E Protein (AA 1-708) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	POLR3E
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3E protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat POLR3E Protein expressed in mammalien cells.
Sequence:	MANEEDDPVV QEIDVYLAKS LAEKLYLFQY PVRPASMTYD DIPHLSAKIK PKQQKVELEM AIDTLNPNYC RSKGEQIALN VDGACADETS TYSSKLMDKQ TFCSSQTTSN TSRYAAALYR QGELHLTPLH GILQLRPSFS YLDKADAKHR EREAANEAGD SSQDEAEDDV KQITVRFSRP ESEQARQRRV QSYEFLQKKH AEEPWVHLHY YGLRDSRSEH ERQYLLCPGS SGVENTELVK SPSEYLMMLM PPSQEEEKDK PVAPSNVLSM AQLRTLPLAD QIKILMKNVK VMPFANLMSL LGPSIDSVAV LRGIQKVAML VQGNWVVKSD ILYPKDSSSP HSGVPAEVLC RGRDFVMWKF TQSRWVVRKE VATVTKLCAE DVKDFLEHMA VVRINKGWEF ILPYDGEFIK KHPDVVQRQH MLWTGIQAKL EKVYNLVKET MPKKPDAQSG PAGLVCGDQR IQVAKTKAQQ NHALLERELQ RRKEQLRVPA VPPGVRIKEE PVSEEGEEDE EQEAEEEPMD TSPSGLHSKL ANGLPLGRAA GTDSFNGHPP QGCASTPVAR ELKAFVEATF QRQFVLTLSE LKRLFNLHLA SLPPGHTLFS GISDRMLQDT VLAAGCKQIL VPFPPQTAAS PDEQKVFALW ESGDMSDQHR QVLLEIFSKN

Product Details

	YRVRRNMIQS RLTQECGEDL SKQEVDKVLK DCCVSYGGMW YLKGTVQS **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	POLR3E
Alternative Name:	POLR3E (POLR3E Products)
Background:	DNA-directed RNA polymerase III subunit RPC5 (RNA polymerase III subunit C5) (DNA-directed RNA polymerase III 80 kDa polypeptide),FUNCTION: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates (PubMed:20413673, PubMed:12391170, PubMed:35637192). 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. Assembles with POLR3D/RPC4 forming a subcomplex that binds the Pol III core. Enables recruitment of Pol III at transcription initiation site and drives transcription initiation from both type 2 and type 3 DNA promoters. Required for efficient transcription termination and reinitiation (PubMed:20413673,

Target Details

	PubMed:12391170, PubMed:35637192) (By similarity). 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). {ECO:0000250|UniProtKB:P36121, ECO:0000269|PubMed:12391170, ECO:0000269|PubMed:19609254, ECO:0000269|PubMed:19631370, ECO:0000269|PubMed:20413673, ECO:0000269|PubMed:35637192}.
Molecular Weight:	79.9 kDa
UniProt:	Q9NVU0

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.
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