

Product datasheet for RC210633

POLR3H (NM 001018050) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: POLR3H (NM_001018050) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: POLR3H

Synonyms: C25; RPC8; RPC22.9

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC210633 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210633 protein sequence

Red=Cloning site Green=Tags(s)

MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYNVGLCICLFDITKLEDAYVFPGDGASHTKV HFRCVVFHPFLDEILIGKIKGCSPEGVHVSLGFFDDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDL YMDTGEEIRFRVVDESFVDTSPTGPSSADATTSSEELPKKEAPYTLVGSISEPGLGLLSWWTSN

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**



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POLR3H (NM_001018050) Human Tagged ORF Clone - RC210633

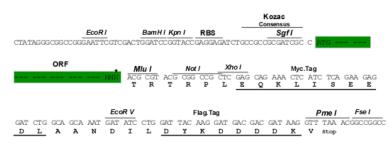
Chromatograms: https://cdn.origene.com/chromatograms/mk6367 a12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001018050

ORF Size: 612 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 001018050.4

RefSeq Size: 4492 bp

POLR3H (NM_001018050) Human Tagged ORF Clone - RC210633

 RefSeq ORF:
 615 bp

 Locus ID:
 171568

 UniProt ID:
 Q9Y535

Cytogenetics: 22q13.2

Protein Families: Transcription Factors

Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine

metabolism, RNA polymerase

MW: 22.9 kDa

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four

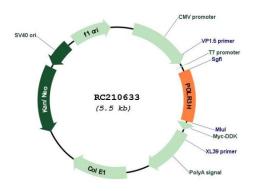
ribonucleoside triphosphates as substrates. Specific peripheric component of RNA

polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as 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).[UniProtKB/Swiss-Prot Function]

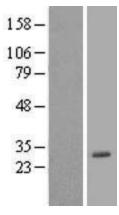
Product images:

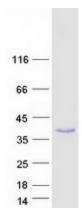
Protein Pathways:



Circular map for RC210633







Western blot validation of overexpression lysate (Cat# [LY408616]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220534] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified POLR3H protein (Cat# [TP310633]). The protein was produced from HEK293T cells transfected with POLR3H cDNA clone (Cat# RC210633) using MegaTran 2.0 (Cat# [TT210002]).