

Product datasheet for RC204102

POLR3K (NM_016310) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLR3K (NM_016310) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: POLR3K
Synonyms: C11; C11-RNP3; HLD21; My010; RPC10; RPC11; RPC12.5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204102 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCTGTTCTGCCCCGGCTGCGGGAACGGGCTGATCGTGGAGGAGGGACAACGCTGCCACCGCTTCG
CCTGCAACACGTGCCCTACGTGCACAACATCACCCGCAAGGTAACAAATCGGAAGTACCCAAAACCTGAA
AGAAGTGGATGATGTGCTTGGTGGAGCAGCTGCCTGGGAGAATGTTGACTCTACTGCAGAGTCGTGTCCC
AAATGCGAACATCCTCGTGCTTACTTCATGCAGCTTCAGACCCGCTCTGCAGATGAGCCGATGACCACCT
TCTACAAGTGCTGCAATGCTCAGTGTGGACACCGCTGGAGGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204102 protein sequence
 Red=Cloning site Green=Tags(s)
 MLLFCPGCGNGLIVEEGQRCHRFAACNTCPYVHNI TRKVTNRKYPKLKEVDDVLGGAAAWENV DSTAESCP
 KCEHPRAYFMQLQTRSADEPMTTFYKCCNAQCGHRWRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6432_a11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_016310

ORF Size: 324 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.

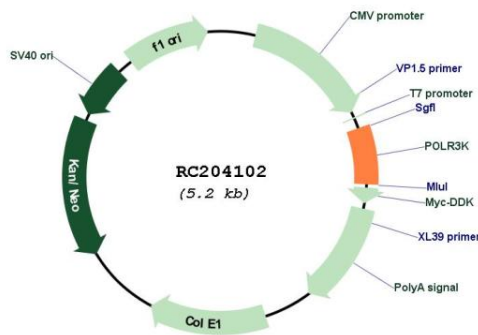
RefSeq: [NM_016310.5](#)

RefSeq Size: 834 bp

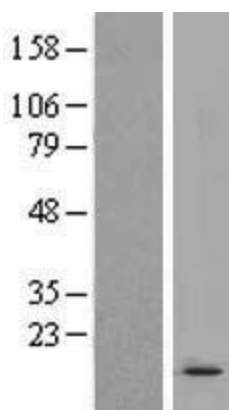
RefSeq ORF: 327 bp

Locus ID: 51728
UniProt ID: [Q9Y2Y1](#)
Cytogenetics: 16p13.3
Domains: TFIIS, RNA_POL_M_15KD
Protein Families: Transcription Factors
Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
MW: 12.3 kDa
Gene Summary: This gene encodes a small essential subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The carboxy-terminal domain of this subunit shares a high degree of sequence similarity to the carboxy-terminal domain of an RNA polymerase II elongation factor. This similarity in sequence is supported by functional studies showing that this subunit is required for proper pausing and termination during transcription. Pseudogenes of this gene are found on chromosomes 13 and 17.[provided by RefSeq, Jul 2010]

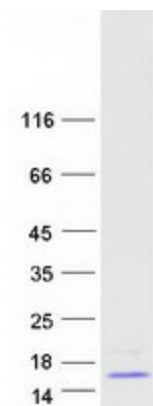
Product images:



Circular map for RC204102



Western blot validation of overexpression lysate (Cat# [LY414047]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204102 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLR3K protein (Cat# [TP304102]). The protein was produced from HEK293T cells transfected with POLR3K cDNA clone (Cat# RC204102) using MegaTran 2.0 (Cat# [TT210002]).