

Product datasheet for RC210501L3

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

mtRNA polymerase (POLRMT) (NM_005035) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: mtRNA polymerase (POLRMT) (NM_005035) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: mtRNA polymerase

Synonyms: APOLMT; h-mtRPOL; MTRNAP; MTRPOL

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF inser

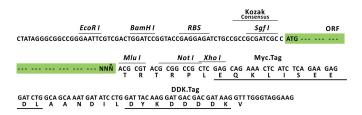
Sequence:

The ORF insert of this clone is exactly the same as(RC210501).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_005035

ORF Size: 3690 bp



mtRNA polymerase (POLRMT) (NM_005035) Human Tagged Lenti ORF Clone - RC210501L3

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: <u>NM 005035.3</u>

 RefSeq Size:
 3800 bp

 RefSeq ORF:
 3693 bp

 Locus ID:
 5442

 UniProt ID:
 000411

 Cytogenetics:
 19p13.3

Protein Families: Transcription Factors

MW: 138.5 kDa

Gene Summary: This gene encodes a mitochondrial DNA-directed RNA polymerase. The gene product is

responsible for mitochondrial gene expression as well as for providing RNA primers for initiation of replication of the mitochondrial genome. Although this polypeptide has the same function as the three nuclear DNA-directed RNA polymerases, it is more closely related to RNA polymerases of phage and mitochondrial polymerases of lower eukaryotes. [provided by

RefSeq, Jul 2008]