

Product datasheet for RC204456L3

OriGene Technologies, Inc.

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DNA Polymerase gamma (POLG) (NM_002693) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DNA Polymerase gamma (POLG) (NM_002693) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: DNA Polymerase gamma

Synonyms: MDP1; MIRAS; MTDPS4A; MTDPS4B; PEO; POLG1; POLGA; SANDO; SCAE

Mammalian Cell Puromycin

Selection:

Vector:

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

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204456).

Sgfl-Mlul

Sequence:

Restriction Sites: Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_002693

ORF Size: 3717 bp



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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.

RefSeq: NM 002693.1

RefSeq Size: 4464 bp RefSeq ORF: 3720 bp

Locus ID: 5428

 UniProt ID:
 P54098

 Cytogenetics:
 15q26.1

Domains: DNA pol A

Protein Families: Druggable Genome
Protein Pathways: Metabolic pathways

MW: 139.6 kDa

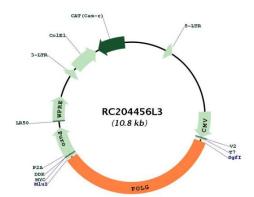
Gene Summary: Mitochondrial DNA polymerase is heterotrimeric, consisting of a homodimer of accessory

subunits plus a catalytic subunit. The protein encoded by this gene is the catalytic subunit of mitochondrial DNA polymerase. The encoded protein contains a polyglutamine tract near its N-terminus that may be polymorphic. Defects in this gene are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions 1 (PEOA1), sensory ataxic neuropathy dysarthria and ophthalmoparesis (SANDO), Alpers-Huttenlocher syndrome (AHS), and mitochondrial neurogastrointestinal encephalopathy syndrome (MNGIE). Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul

2008]



Product images:



Circular map for RC204456L3