

Product datasheet for RC201793L3

OriGene Technologies, Inc.

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DNA polymerase delta p50 (POLD2) (NM_006230) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DNA polymerase delta p50 (POLD2) (NM_006230) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: DNA polymerase delta p50

Mammalian Cell Puromycin

Selection:

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

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

ORF Nucleotide

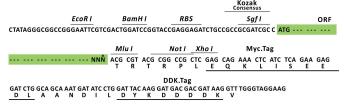
The ORF insert of this clone is exactly the same as(RC201793).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_006230

ORF Size: 1407 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: <u>NM 006230.1</u>

RefSeq Size: 1648 bp
RefSeq ORF: 1410 bp
Locus ID: 5425

Cytogenetics: 7p13

UniProt ID:

Protein Families: Stem cell - Pluripotency

P49005

Protein Pathways: Base excision repair, DNA replication, Homologous recombination, Metabolic pathways,

Mismatch repair, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism

MW: 51.3 kDa

Gene Summary: This gene encodes the 50-kDa catalytic subunit of DNA polymerase delta. DNA polymerase

delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The encoded protein is required for the stimulation of DNA polymerase delta activity by the processivity cofactor proliferating cell nuclear antigen

(PCNA). Expression of this gene may be a marker for ovarian carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq,

Mar 2012]