

Product datasheet for RC231277L3

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OriGene Technologies, Inc.

POLE2 (NM_001197331) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: POLE2 (NM 001197331) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: POLE2
Synonyms: DPE2

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(RC231277).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001197331

ORF Size: 1506 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.

14q21.3

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 001197331.1

 RefSeq ORF:
 1509 bp

 Locus ID:
 5427

 UniProt ID:
 P56282

Cytogenetics:

Protein Pathways: Base excision repair, DNA replication, Metabolic pathways, Nucleotide excision repair, Purine

metabolism, Pyrimidine metabolism

MW: 57.2 kDa

Gene Summary: DNA polymerase epsilon, which is involved in DNA repair and replication, is composed of a

large catalytic subunit and a small accessory subunit. The protein encoded by this gene represents the small subunit (B). Defects in this gene have been linked to colorectal cancer

and to combined immunodeficiency. [provided by RefSeg, Jan 2017]