

Product datasheet for **RC225794L4V**

DNA polymerase delta p50 (POLD2) (NM_001127218) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	DNA polymerase delta p50 (POLD2) (NM_001127218) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DNA polymerase delta p50
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001127218
ORF Size:	1407 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC225794).
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.
RefSeq:	NM_001127218.1 , NP_001120690.1
RefSeq Size:	1821 bp
RefSeq ORF:	1410 bp
Locus ID:	5425
UniProt ID:	P49005
Cytogenetics:	7p13
Protein Families:	Stem cell - Pluripotency



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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]