

## Product datasheet for **RC201238L2V**

### **POLD1 (NM\_002691) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	POLD1 (NM_002691) Human Tagged ORF Clone Lentiviral Particle
Symbol:	POLD1
Synonyms:	CDC2; CRCS10; MDPL; POLD
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002691
ORF Size:	3321 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201238).
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. <a href="#">More info</a>
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:	<a href="#">NM_002691.1</a>
RefSeq Size:	3464 bp
RefSeq ORF:	3324 bp
Locus ID:	5424
UniProt ID:	<a href="#">P28340</a>
Cytogenetics:	19q13.33
Domains:	DNA_pol_B_exo, DNA_pol_B, POLBc
Protein Families:	Druggable Genome, 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:** 123.6 kDa

**Gene Summary:** This gene encodes the 125-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. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 6. [provided by RefSeq, Mar 2012]