

Product datasheet for RC203462L2

POLG2 (NM_007215) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLG2 (NM_007215) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	POLG2
Synonyms:	HP55; MTDPS16; MTPOLB; PEOA4; POLB; POLG-BETA; POLGB
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203462).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



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

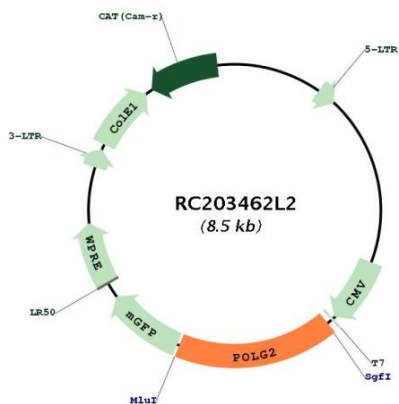
ACCN:	NM_007215
ORF Size:	1455 bp



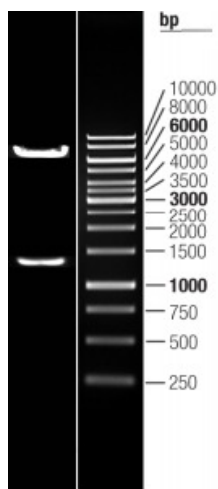
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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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:	<ol style="list-style-type: none">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_007215.2
RefSeq Size:	1607 bp
RefSeq ORF:	1458 bp
Locus ID:	11232
UniProt ID:	Q9UHN1
Cytogenetics:	17q23.3
Domains:	HGTP_anticondon
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Metabolic pathways
MW:	54.9 kDa
Gene Summary:	This gene encodes the processivity subunit of the mitochondrial DNA polymerase gamma. The encoded protein forms a heterotrimer containing one catalytic subunit and two processivity subunits. This protein enhances DNA binding and promotes processive DNA synthesis. Mutations in this gene result in autosomal dominant progressive external ophthalmoplegia with mitochondrial DNA deletions.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RC203462L2



Double digestion of RC203462L2 using SgfI and MluI