

Product datasheet for SC303754

POLE (NM_006231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLE (NM_006231) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLE
Synonyms:	CRCS12; FILS; IMAGE1; POLE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303754 representing NM_006231. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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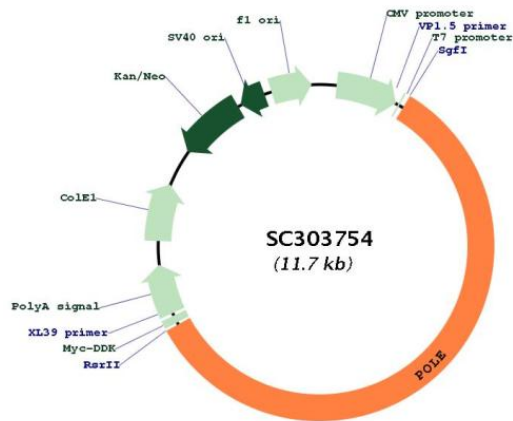
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Restriction Sites:

SgfI-RsrII

Plasmid Map:



ACCN:

NM_006231

Insert Size:

6861 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_006231.3
RefSeq Size:	8024 bp
RefSeq ORF:	6861 bp
Locus ID:	5426
UniProt ID:	Q07864
Cytogenetics:	12q24.33
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair, DNA replication, Metabolic pathways, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism
MW:	261.5 kDa
Gene Summary:	This gene encodes the catalytic subunit of DNA polymerase epsilon. The enzyme is involved in DNA repair and chromosomal DNA replication. Mutations in this gene have been associated with colorectal cancer 12 and facial dysmorphism, immunodeficiency, livedo, and short stature. [provided by RefSeq, Sep 2013]