

Product datasheet for **SC330547**

POLD4 (NM_001256870) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLD4 (NM_001256870) Human Untagged Clone
Tag: Tag Free
Symbol: POLD4
Synonyms: p12; POLDS
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330547 representing NM_001256870.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGGCCGGAAGCGGCTCATCTGATTCTACCCGTTGTGAAGAGGAGGGAGGGGCCGCTGGGCAC
 AGCAAGGGGGAGCTGGCACCCGAGCTAGGGGAGGAGCCCGAGCCCGCGACGAGGAGGAAGCGGAGCTG
 GAGCTGCTGAGGCAGTTTGACCTGGCCTGGCAGTACGGGCCCTGCACCGTCTCTGGCATCTCTATCCCC
 TATGAGGCACCACGTAAGACCTCCTGCCCTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001256870

Insert Size: 240 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).

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.
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_001256870.1](#)



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RefSeq Size:	1639 bp
RefSeq ORF:	240 bp
Locus ID:	57804
UniProt ID:	Q9HCU8
Cytogenetics:	11q13.2
Protein Pathways:	Base excision repair, DNA replication, Homologous recombination, Metabolic pathways, Mismatch repair, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism
MW:	8.9 kDa
Gene Summary:	<p>This gene encodes the smallest 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 enhances the activity of DNA polymerase delta and plays a role in fork repair and stabilization through interactions with the DNA helicase Bloom syndrome protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>