POLD4 cDNA Clone – Polymerase (DNA-Directed), Delta 4 (Human)

PRODUCT OVERVIEW

Product Name	POLD4, cDNA Clone
Full Product Name	POLD4 cDNA Clone
Product Gene Name	POLD4 cdna clone
Sequence	atgggccgga agcggctcat cactgattcc tacccggttg tgaagaggag ggaggggccc gctgggcaca gcaaggggga gctggcaccc gagctaggtc tctga
Molecular Weight	8,868 Da
OMIM	611525
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for POLD4 cdna clone	MBS1273195 is a cDNA clone targeting POLD4.
Other Notes	Small volumes of POLD4 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLD4. It may not necessarily be applicable to this product.

NCBI GI #	12654972
NCBI GeneID	57804
NCBI Accession #	BC001334
UniProt Secondary Accession #	F5H506
UniProt Related Accession #	Q9HCU8
NCBI Official Full Name	Homo sapiens polymerase (DNA-directed), delta 4, mRNA
NCBI Official Synonym Full Names	DNA polymerase delta 4, accessory subunit
NCBI Official Symbol	POLD4
NCBI Official Synonym Symbols	p12; POLDS
UniProt Protein Name	DNA polymerase delta subunit 4
UniProt Synonym Protein Names	DNA polymerase delta subunit p12
UniProt Gene Name	POLD4
UniProt Synonym Gene Names	POLDS
UniProt Entry Name	DPOD4_HUMAN
NCBI Protein Information	DNA polymerase delta subunit 4

NCBI Summary for POLD4	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]
UniProt Comments for POLD4	POLD4: Required for optimal DNA polymerase delta activity. May contribute to PCNA-dependent activity of DNA polymerase delta. Belongs to the DNA polymerase delta subunit 4 family. Protein type: Nucleotide Metabolism - purine; Nucleotide Metabolism - pyrimidine Chromosomal Location of Human Ortholog: 11q13 Cellular Component: delta DNA polymerase complex; nucleoplasm; nucleus Molecular Function: DNA-directed DNA polymerase activity; protein binding Biological Process: bypass DNA synthesis; DNA damage response, detection of DNA damage; DNA replication; DNA strand elongation during DNA replication; DNA synthesis during DNA repair; DNA-dependent DNA replication; mismatch repair; nucleotide-excision repair, DNA gap filling; nucleotide-excision repair, DNA incision; nucleotide-excision repair, DNA incision, 5'-to lesion; telomere maintenance; telomere maintenance via recombination; transcription-coupled nucleotide-excision repair
Research Articles on POLD4	**1.** the p12/Pol delta is a target as a nuclear substrate of mu-calpain in a calcium-triggered apoptosis and appears to be a potential marker in the study of the chemotherapy of cancer therapies.
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