

Product datasheet for **RC201793**

DNA polymerase delta p50 (POLD2) (NM_006230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase delta p50 (POLD2) (NM_006230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNA polymerase delta p50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201793 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTTCTGAGCAGGCTGCCAGAGGGCCACACTCTACTGTCCCACCATCAGCCAACAATGCCACCT
 TTGCCCGGTGCCAGTGGCAACCTACACCAACTCCTCACAACCTTCCGGCTAGGAGAGCGCAGCTTTAG
 CCGGCAGTATGCCACATTTATGCCACCCGCTCATCCAATGAGACCCTTCTGGAGAACCAGGCCAG
 CAGCACTGGGGCAGTGGAGTGGGAGTGAAGAAGCTGTGTGAAGTGCAGCCTGAGGAGAAGTCTGTGTGG
 TGGGCACTCTGTTCAAGGCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTGAGGAGGAGCACAACCT
 GCTCCCCAGCCTCCTCGGAGTAAATACATACACCCAGATGACGAGCTGGTCTTGAAGATGAAGTGCAG
 CGTATCAAATAAAGGCCACATTGACGTGTCAAAGCTGGTACGGGGACTGTCTGGCTGTGTTGGCT
 CCGTGAGAGACGACGGGAAGTTTCTGGTGGAGGACTATTGCTTTGCTGACCTTGTCCCCAGAAGCCCGC
 ACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTGTCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAG
 AGCCTGTGGGCACCCAGCTGTGGTGGATGTGGTGACGGGGCAGCTTGGGGACGAAGGGGAGCAGTGCA
 GCGCCGCCACGTCTCCCGGTTATCCTCGCTGGCAACCTCCTCAGCCACAGCACCCAGAGCAGGGATT
 TATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAGGCTGTTAAGATGCTGGAT
 GAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTTGATCCCACCAATT
 ACACGCTCCCCAGCAGCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACGCTCCAGCT
 GGTACCAACCCCTACCAGGCCACCATGATGGAGTCAAGTTTTGGGGACATCAGGACAGAACGTGAGT
 GACATTTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCTGCGGGTCCGTCACA
 TCAGCCCCACAGCCCTGACACTCTAGGTTGTTACCCCTTACAAAACGACCCGTTTCACTTTCCGAGA
 GTGCCCGCATGTCTACTTTTGTGGCAACACCCAGCTTTGGCTCCAAAATCATCCGAGGTCCTGAGGAC
 CAGACAGTGTGTTGGTACTGTCCCTGACTTCACTGCCACGCAGACCCGCTGCCTTGTGAACCTGCGCA
 GCCTGGCCTGCCAGCCATCAGCTTCTCGGGCTTCCGGGCAGAGGACGATGACCTGGGAGGCTGGGGCT
 GGGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201793 protein sequence
 Red=Cloning site Green=Tags(s)

MFSEQAAQRAHTLLSPSSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATRLIQMRPFLENRAQ
 QHWGSGVGKLLCELQPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLQPPRSKYIHPDDELVLEDELQ
 RIKLKGITDVSCLVTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSLGLGGGGGE
 SLLGTQLLVVVTGQLGDEGEQCSAAHVSRLVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLD
 EILLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFVLTSGQNV
 DIFRYSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKIDPFIFPECPHYVFCGNTPSFGSKIIRGPED
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

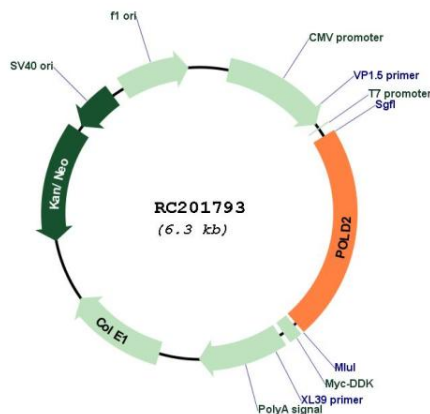
Chromatograms:

https://cdn.origene.com/chromatograms/mk6581_g08.zip

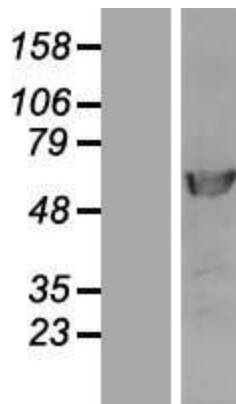
Restriction Sites:

SgfI-MluI

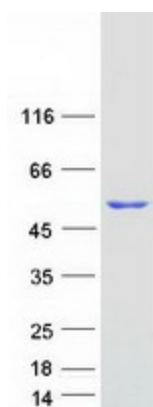
Cytogenetics:	7p13
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Base excision repair, DNA replication, Homologous recombination, Metabolic pathways, Mismatch repair, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism
MW:	51.3 kDa
Gene Summary:	This gene encodes the 50-kDa 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. The encoded protein is required for the stimulation of DNA polymerase delta activity by the processivity cofactor proliferating cell nuclear antigen (PCNA). Expression of this gene may be a marker for ovarian carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Mar 2012]

Product images:


Circular map for RC201793



Western blot validation of overexpression lysate (Cat# [LY426719]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225794] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLD2 protein (Cat# [TP301793]). The protein was produced from HEK293T cells transfected with POLD2 cDNA clone (Cat# RC201793) using MegaTran 2.0 (Cat# [TT210002]).