

Product datasheet for **RG234195**

DNA polymerase delta p50 (POLD2) (NM_001256879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase delta p50 (POLD2) (NM_001256879) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234195 representing NM_001256879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTTCTGAGCAGGCTGCCAGAGGGCCACACTCTACTGTCCCACCATCAGCCAACAATGCCACCT
 TTGCCCGGTGCCAGTGGCAACCTACACCAACTCCTCACAAACCTTCCGGCTAGGAGAGCGCAGCTTTAG
 CCGGCAGTATGCCACATTTATGCCACCCGCTCATCCAATGAGACCCTTCTGGAGAACCAGGCCAG
 CAGCACTGGGGCAGTGGAGTGGGAGTGAAGAAGCTGTGTGAAGTGCAGCCTGAGGAGAAGTGTGTGG
 TGGGCACTCTGTTCAAGGCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTGAGGAGGAGCACAACCT
 GCTCCCCAGCCTCCTCGGAGTAAATACATACACCCAGATGACGAGCTGGTCTTGAAGATGAAGTGCAG
 CGTATCAAATAAAGGCCACATTGACGTGTCAAAGCTGGTACGGGGACTGTCTGGCTGTGTTGGCT
 CCGTGAGAGACGACGGGAAGTTTCTGGTGGAGGACTATTGCTTTGCTGACCTTGCTCCCCAGAAGCCCGC
 ACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTGTCCGGCCTGGGCCTGGGTGGCGGTGAGGCGAG
 AGCCTGTGGGACCCAGCTGTGGTGGATGTGGTGCAGGGGAGCTTGGGGACGAAGGGGAGCAGTGCA
 GCGCCGCCACGTCTCCCGGTTATCCTCGCTGGCAACCTCCTCAGCCACAGCACCCAGAGCAGGGATTC
 TATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAGGCTGTTAAGATGCTGGAT
 GAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTTGTATCCCAACCT
 ACACGCTCCCCAGCAGCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACGCTCCAGCT
 GGTACCAACCCCTACCAGGCCACCATGATGGAGTCAAGTTTGGGGACATCAGGACAGAAGCTGAGT
 GACATTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCTGCGGGTCCGTCACA
 TCAGCCACAGCCCTGACACTTAGTTGTTACCCCTTCTACAAAATGACCCGTTTCACTTTCCAGAG
 GTGCCCGCATGTCTACTTTTGTGGCAACACCCAGCTTTGGCTCCAAAATCATCCGAGGTCTGAGGAC
 CAGACAGTGTGTTGGTACTGTCCCTGACTTCACTGCCACGACAGCCGCTGCCTTGTGAACCTGCGCA
 GCCTGGCCTGCCAGCCATCAGCTTCTCGGGCTTCCGGGACAGGAGCAGTACCTGGGAGGCTGGGGCT
 GGGCCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234195 representing NM_001256879
 Red=Cloning site Green=Tags(s)

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATRLIQMRPFLENRAQ
 QHWGSGVGKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLQPPRSKYIHPDDELVLEDELQ
 RIKLKGIDVSKLVTGTLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGLGLGGGGGE
 SLLGTQLLDVVTGQLGDEGEQCSAAHVSRLVILAGNLLSHSTQSRDSINKAKYLTKKTQAAVEAVKMLD
 EILLQLSASVPDVMPEFDPTNYTLPPQPLHPCMFPLATAYSTLQLVTNYPYQATIDGVRFLGTSGQNV
 DIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPIFPECPHYFCGNTPSFGSKIIRGPED
 QTVLLVTPVDFSATQTAACLNLRLSLACQPIFSGFGAEDDDLGLGLGP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001256879.1 , NP_001243808.1
RefSeq Size:	2182 bp
RefSeq ORF:	1410 bp
Locus ID:	5425
UniProt ID:	P49005
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
Gene Summary:	<p>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]</p>