

Product datasheet for **RC200053**

POLDIP2 (NM_015584) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLDIP2 (NM_015584) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: POLDIP2
Synonyms: p38; PDIP38; POLD4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200053 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGCCTGTACAGCCCGGGGGCCCTGGCCGTGGGCAGCCGCTGGTGGTCCCAGTGGTGGTGGG
CCCAGTGGCCAAGGCCGCTCTGTGCGGGCGCCGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGAC
GCGGAGGCACCTCTCGTCCCGAAACCGACCAGAGGGCAAAGTGTGGAGACAGTTGGTGTGTTGAGGTG
CCAAAACAGAATGAAAAATAGAGACCGGGCAGCTTTTCCTTCATAGCATTGTTGGTACCGAGGTGTCG
TCCTGTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTCTGCAGCTCCAGAAAAGCAGAGAA
CCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTATCAGGTGCTGATTGATGCT
CGTGACTGCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTGGCTAACCATGATGACA
GTCGGGCCCTCTATGCCATCCCAGGCTTGGACTATGTCAGCCATGAAGACATCCTCCCCTACACCTCCAC
TGATCAGGTTCCCATCCAACATGAACTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACCTCCT
TTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCCTCGATGTT
ATCGGGAACAACCTGAGAACATACGTGTCAGTGTATCCCCTTACATGGGCATGAGGGAAGCCCAGAA
TTCCCACGTGTACTGGTGGCGTACTGTATCCGTTTGGAGAACCCTTGACAGTGATGTGGTACAGCTCCGG
GAGCGGCACTGGAGGATATTCAGTCTCTGGCACCTTGGAGACAGTGGCAGGCGGAGGGGTAGTGGGCA
GGGAACCAAGTGTATCCAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCAGTCTCGCTGCAGGCTCCAG
TGGGCACATGTGGGCACGTTCCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTCCGATTCTCC
TTCTCCCTGAAAAGCAATAAAGATGAGAAGACACCACCCTCAGGCCTTCACTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC200053 protein sequence
Red=Cloning site Green=Tags(s)

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTRRHLSRRNRPEGKVLETVGVFEV
 PKQNGKYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKHTHTYYQVLIDA
 RDCPHISQRSQTEAVTFLANHDDSRALYAIPLDYVSHEDILPYTSTDQVPIQHELFERFLLYDQTKAPP
 FVARETLRAWQEKNHWPWLELSDVHRETTENIRVTVIPFYMGMEAQNSHVYWWRYCIRLENLSDSDVVQLR
 ERHWIRIFSLSGTLETVRGRGVVGREPVLSEKQPAFYSSHVSLQASSGHMWGTFRFRERPDGSHFDVRIIPP
 FSLESNKDEKTPPSGLHW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6125_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_015584

ORF Size: 1104 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015584.5](#)

RefSeq Size: 2753 bp

RefSeq ORF: 1107 bp

Locus ID: 26073

UniProt ID: [Q9Y2S7](#)

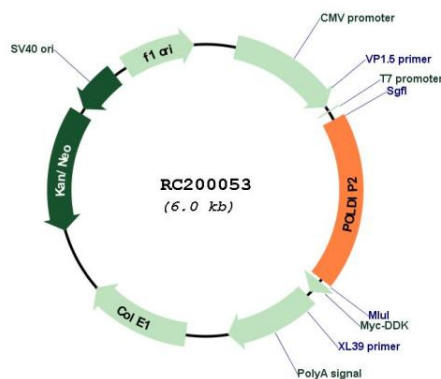
Cytogenetics: 17q11.2

Domains: DUF525

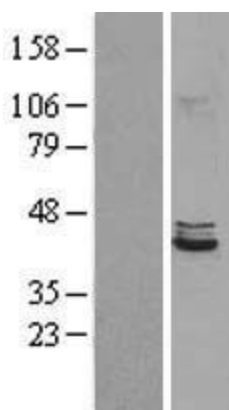
MW: 42 kDa

Gene Summary: This gene encodes a protein that interacts with the DNA polymerase delta p50 subunit, as well as with proliferating cell nuclear antigen. The encoded protein maybe play a role in the ability of the replication fork to bypass DNA lesions. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

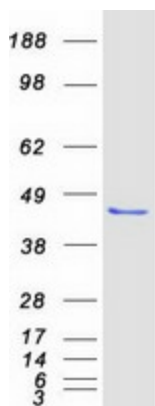
Product images:



Circular map for RC200053



Western blot validation of overexpression lysate (Cat# [LY402448]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLDIP2 protein (Cat# [TP300053]). The protein was produced from HEK293T cells transfected with POLDIP2 cDNA clone (Cat# RC200053) using MegaTran 2.0 (Cat# [TT210002]).