

Product datasheet for **RG200053**

POLDIP2 (NM_015584) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLDIP2 (NM_015584) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLDIP2
Synonyms:	p38; PDIP38; POLD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200053 representing NM_015584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCTGTACAGCCCGGGGGCCCTGGCCGTGGGCAGCCGCTGGTGGTCCCGGTGCTGACTGGGG
CCCGGTGGCCAAGGCCGCTCTGTGCGCGCGCCGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGAC
GCGGAGGCACCTCTGTCGCCGAAACCGACCAGAGGGCAAAGTGTGGAGACAGTTGGTGTGTTTGGGTG
CCAAAACAGAATGAAAAATGAGACCGGGCAGCTTTTCCTTCATAGCATTGTTGGTACCGAGGTGTCG
TCCTGTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTCTGCAGCTCCAGAAAAGCAGAGAA
CCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTATCAGGTGCTGATTGATGCT
CGTGACTGCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTGGCTAACCATGATGACA
GTCGGGCCCTCTATGCCATCCCAGGCTTGGACTATGTCAGCCATGAAGACATCCTCCCCTACACCTCCAC
TGATCAGGTTCCCATCCAACATGAACTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACCTCCT
TTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCCTCGATGTT
ATCGGGAACAACCTGAGAACATACGTGTCAGTGTATCCCCTTACATGGGCATGAGGGAAGCCCAGAA
TTCCCACGTGACTGGTGGCGCTACTGTATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGG
GAGCGGCACTGGAGGATATTCAGTCTCTGGCACCTTGGAGACAGTGGAGGCCGAGGGGTAGTGGGCA
GGGAACCAAGTGTATCCAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCAGTCTCGCTGCAGGCTCCAG
TGGGCACATGTGGGCACGTTCCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTCCGATTCTCC
TTCTCCCTGAAAAGCAATAAAGATGAGAAGACACCACCCTCAGGCCTTCACTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200053 representing NM_015584
 Red=Cloning site Green=Tags(s)

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTRRHLSRRNRPEGKVLETVGVFVEV
 PKQNGKYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKTHYYQVLIDA
 RDCPHISQRSQTEAVTFLANHDDSRALYAIPGLDYVSHEDILPYTSTDQVPIQHELFFERFLLYDQTKAPP
 FVARETLRAWQEKNHWPWLELSDVHRETTENIRVTVIPFYMGMRQAQNSHVYWWRYCIRLENLSDVYVQLR
 ERHWIRIFSLSGTLETVRGRGVVGREPVLSEKQPAFYSSHVSLQASSGHMWGTFRFRERPDGSHFDVRIPP
 FSLESNKDEKTPPSGLHW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_015584.5](#)

RefSeq Size: 2723 bp

RefSeq ORF: 1107 bp

Locus ID: 26073

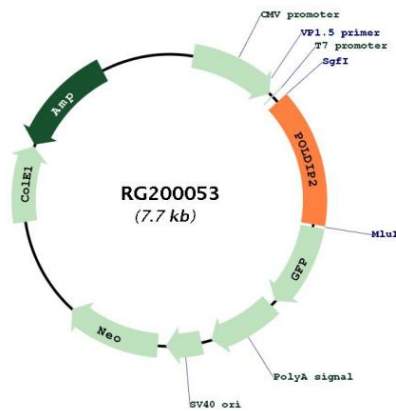
UniProt ID: [Q9Y2S7](#)

Cytogenetics: 17q11.2

Domains: DUF525

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 RG200053