

Product datasheet for **RC213530**

PARP3 (NM_001003931) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PARP3 (NM_001003931) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PARP3 |
| Synonyms: | ADPRT3; ADPRTL2; ADPRTL3; ARTD3; IRT1; PADPRT-3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC213530 representing NM_001003931
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTGCTTTTCTTGCCATGGCTCCAAGCCGAAGCCCTGGGTACAGACTGAGGGCCCTGAGAAGA
 AGAAGGGCCGGCAGGCAGGAAGGGAGGACCCCTTCCGCTCCACCGCTGAGGGCCCTCAAGGCCATACC
 CGCAGAGAAGCGCATAATCCGCGTGGATCCAACATGTCCACTCAGCAGCAACCCCGGACCAGGTGTAT
 GAGGACTACAACCTGCACCCTGAACCAGACCAACATCGAGAACAACAACAAGTTCTACATCATCCAGC
 TGCTCCAAGACAGCAACCGCTTCTTACCTGCTGGAACCACTGGGGCCGTGTGGGAGAGGTGCGCCAGTC
 AAAGATCAACCCTTACAAGGCTAGAAGATGCAAAGAAGGACTTTGAGAAGAAATTTGGGAAAAGACC
 AAGAACAACCTGGCAGAGCGGGACCCTTTGTGTCTACCCGGGCAAGTACACACTTATCGAAGTACAGG
 CAGAGGATGAGGCCAGGAAGCTGTGGTGAAGGTGGACAGAGGCCAGTGAAGGACTGTGACTAAGCGGT
 GCAGCCCTGCTCCCTGGACCCAGCCACGAGAAGCTCATCACTAACATCTTCAGCAAGGAGATGTTCAAG
 AACACCATGGCCCTCATGGACCTGGATGTGAAGAAGATGCCCTGGGAAAGCTGAGCAAGCAACAGATTG
 CACGGGGTTTCGAGGCCTTGGAGGCGCTGGAGGAGGCCCTGAAAGGCCCCACGGATGGTGGCCAAAGCCT
 GGAGGAGCTGTCCTCACACTTTTACACCGTATCCCGCACAACTTCGGCCACAGCCAGCCCCGCCATC
 AATTCCTGAGCTTCTGAGGCCAAGAAGGACATGCTGCTGGTGTGGCGGACATCGAGCTGGCCAGG
 CCCTGCAGGCAGTCTCTGAGCAGGAGAAGACGGTGGAGGAGGTGCCACACCCCTGGACCGAGACTACCA
 GCTTCTCAAGTCCAGCTGCAGCTGCTAGACTCTGGAGCACCTGAGTACAAGGTGATACAGACCTACTTA
 GAACAGACTGGCAGCAACCACAGGTGCCCTACACTTCAACACATCTGAAAGTAAACCAAGAAGGGGAGG
 AAGCAGATTCCAGGCCACTCCAACTGGGTAATCGGAAGCTGCTGTGGCATGGCACCAACATGGCCGT
 GGTGGCCGCCATCCTCACTAGTGGGCTCCGCATCATGCCACATTCTGGTGGCGTGTGGCAAGGGCATC
 TACTTTGCCTCAGAGAACAGCAAGTCAAGTGGATATGTTATTGGCATGAAGTGTGGGGCCACCATGTCG
 GCTACATGTTCTGGGTGAGGTGGCCCTGGGCAGAGAGCACCATATCAACACGGACAACCCAGCTTGAA
 GAGCCACCTCCTGGCTTCGACAGTGTATTGCCCGAGGCCACACCGAGCCTGATCCGACCCAGGACT
 GAGTTGGAGCTGGATGGCCAGCAAGTGGTGGTGGCCCGAGGCCAGCCTGTGCCCTGCCAGAGTTACGA
 GCTCCACATTCTCCAGAGCGAGTACCTCATCTACCAGGAGAGCCAGTGTGCGCTGCGCTACCTGCTGGA
 GGTCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213530 representing NM_001003931
 Red=Cloning site Green=Tags(s)

MSLLFLAMAPKPKPWVQTEGPEKKKGRQAGREEDPFRSTAEALKAIPAERKRIIRVDPTEPLSSNPGTQVY
 EDYNCTLNQTNIENNNKFYIIQLLQDSNRFFTCWNHWGRVGEVQSKINHFRLEDAKKDFEKKFREKT
 KNNWAERDHFVSHPGKYTLIEVQAEDAQEAUVKVDGRPVRTVTKRVQPCSLDPATQKLITNIFSKEMFK
 NTMALMDLDVKKMPLGKLSKQIARGFEALEALEEALKGPTDGGQSLEELSSHFYTVIPHNFHGSQPPPI
 NSPELLQAKKDLLVLADIELAQALQAVSEQEKTVVEVPHPLDRDYQLLKQLQLLDGAPEYKVIQTYL
 EQTGSNHRCPQLQHIWKVNQEGEEDRFQAHSKLGNRKLWHGTNMAVVAAILTSGLRIMPHSGGRVKGKI
 YFASENSKSAGYVIGMKCGAHHVGYMFLGEVALGREHHINTDNPSLKSPPPGFDVSIARGHTEPDPTQDT
 ELELDGQVVPVQGPVPCPEFSSTFSQSEYLIYQESQCRLRYLLEVHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001003931

ORF Size: 1620 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_001003931.2](#), [NP_001003931.2](#)

RefSeq Size: 2355 bp

RefSeq ORF: 1602 bp

Locus ID: 10039

UniProt ID: [Q9Y6F1](#)

Cytogenetics: 3p21.2

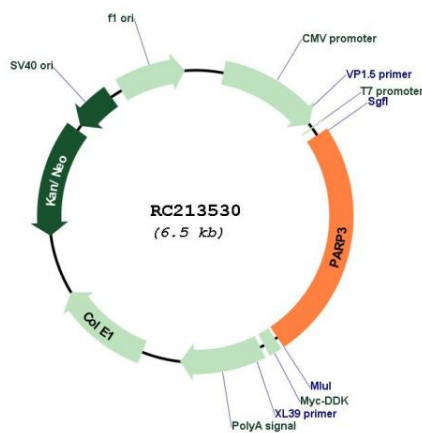
Protein Families: Druggable Genome

Protein Pathways: Base excision repair

MW: 60.7 kDa

Gene Summary: The protein encoded by this gene belongs to the PARP family. These enzymes modify nuclear proteins by poly-ADP-ribosylation, which is required for DNA repair, regulation of apoptosis, and maintenance of genomic stability. This gene encodes the poly(ADP-ribosyl)transferase 3, which is preferentially localized to the daughter centriole throughout the cell cycle. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC213530