

Product datasheet for **RG213530**

PARP3 (NM_001003931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP3 (NM_001003931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARP3
Synonyms:	ADPRT3; ADPRTL2; ADPRTL3; ARTD3; IRT1; PADPRT-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213530 representing NM_001003931
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTGCTTTTCTTGCCATGGCTCCAAGCCGAAGCCCTGGGTACAGACTGAGGGCCCTGAGAAGA
 AGAAGGGCCGGCAGGCAGGAAGGAGGAGACCCCTTCCGCTCCACCGCTGAGGGCCCTCAAGGCCATACC
 CGCAGAGAAGCGCATAATCCGCGTGGATCCAACATGTCCACTCAGCAGCAACCCCGGACCCAGGTGTAT
 GAGGACTACAACCTGCACCCTGAACCAGACCAACATCGAGAACAACAACAAGTTCTACATCATCCAGC
 TGCTCCAAGACAGCAACCGCTTCTTACCTGCTGGAACCACTGGGGCCGTGTGGGAGAGGTGCGCCAGTC
 AAAGATCAACCCTTCAACAGGCTAGAAGATGCAAGAAGGACTTTGAGAAGAAATTCGGGAAAAGACC
 AAGAACAACCTGGGCAGAGCGGGACCACTTTGTGTCTACCCGGGCAAGTACACACTTATCGAAGTACAGG
 CAGAGGATGAGGCCAGGAAGCTGTGGTGAAGGTGGACAGAGGCCAGTGAAGGACTGTGACTAAGCGGGT
 GCAGCCCTGCTCCCTGGACCCAGCCACGCAGAAGCTCATCACTAACATCTTCAGCAAGGAGATGTTCAAG
 AACACCATGGCCCTCATGGACCTGGATGTGAAGAAGATGCCCTGGGAAAGCTGAGCAAGCAACAGATTG
 CACGGGGTTTCGAGGCCTTGGAGGCGCTGGAGGAGGCCCTGAAAGGCCCCACGGATGGTGGCCAAAGCCT
 GGAGGAGCTGTCCTCACACTTTTACACCGTATCCCGCACAACTTCGGCCACAGCCAGCCCCGCCCATC
 AATTCCTCTGAGCTTCTGACGGCCAAGAAGGACATGCTGCTGGTGTGGCGGACATCGAGCTGGCCAGG
 CCCTGCAGGCAGTCTCTGACGAGGAGAAGACGGTGGAGGAGGTGCCACACCCCTGGACCGAGACTACCA
 GCTTCTCAAGTCCAGCTGCAGCTGCTAGACTCTGGAGCACCTGAGTACAAGGTGATACAGACCTACTTA
 GAACAGACTGGCAGCAACCACAGGTGCCCTACACTTCAACACATCTGAAAGTAAACCAAGAAGGGGAGG
 AAGACAGATTCCAGGCCACTCCAAACTGGGTAATCGGAAGCTGCTGTGGCATGGCACCAACATGGCCGT
 GGTGGCCGCATCCTCACTAGTGGCTCCGCATCATGCCACATTCTGGTGGGCGTGTGGCAAGGGCATC
 TACTTTGCCTCAGAGAACAGCAAGTCAAGTGGATATGTTATTGGCATGAAGTGTGGGGCCACCATGTGCG
 GCTACATGTTCTGGGTGAGGTGGCCCTGGGCAGAGAGCACCATATCAACACGGACAACCCAGCTTGAA
 GAGCCACCTCCTGGCTTCGACAGTGTCTTGGCCGAGGCCACACCGAGCCTGATCCGACCCAGGACACT
 GAGTTGGAGCTGGATGGCCAGCAAGTGGTGGTGGCCAGGGCCAGCCTGTGCCCTGCCAGAGTTCAGCA
 GCTCCACATTCTCCAGAGCGAGTACCTCATCTACCAGGAGAGCCAGTGTGCGCTGCGCTACCTGCTGGA
 GGTCACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213530 representing NM_001003931
 Red=Cloning site Green=Tags(s)
 MSLFLAMAPKPKPWVQTEGPEKKKGRQAGREEDPFRSTAEALKAIPA EKRIIRVDPTCPLSSNPQTQVY
 EDYNCTLNQTNIENNNKFYIIQLLQDSNRFFTCWNHWGRVGEVQSKINHFRLEDAKKDFEKKFREKT
 KNNWAERDHFVSHPGKYTLIEVQAEDEAQEAVVKVDRGPVRTVTKRVQPCSLDPATQKLITNIFSKEMFK
 NTMALMDLDVKKMPLGKLSKQIARGFEALEALEEALGPTDGGQSLLELSSHFYTVIPHNFGHSQPPPI
 NSPELLQAKKDLLVLADIELAQALQAVSEQEKTVVEVPHPLDRDYQLLKCQLQLLDSGAPEYKVIQTYL
 EQTGSNHRCP TLQHIWKVNQEGEEDRFQAHSKLGNRKL LWHGTNMAVVAAILTSGLRIMPHSGGRVKGKI
 YFASENSKSAGYVIGMKCGAHHVGYMFLGEVALGREHHINTDNPSLKSPPP GFDSVIARGHTEPDPTQDT
 ELELDGQVVVPQGPVPCPEFSSSTFSQSEYLIYQESQCRLRYLLEVHL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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

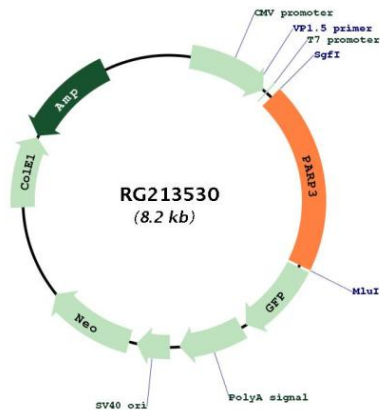
RefSeq ORF: 1602 bp

Locus ID: 10039

UniProt ID: [Q9Y6F1](#)

Cytogenetics:	3p21.2
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
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 RG213530