

Product datasheet for **RG217717**

PARP3 (NM_001003935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP3 (NM_001003935) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARP3
Synonyms:	ADPRT3; ADPRTL2; ADPRTL3; hPARP-3; 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:

>RG217717 representing NM_001003935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCAAAGCCGAAGCCCTGGGTACAGACTGAGGGCCCTGAGAAGAAGAAGGCCGGCAGGCAGGAA
 GGGAGGAGGACCCCTTCGCTCCACCGCTGAGGCCCTCAAGGCCATACCGCAGAGAAGGCATAATCCG
 CGTGGATCCAACATGTCCACTCAGCAGCAACCCCGGGACCCAGGTGTATGAGGACTACAACCTGCACCCTG
 AACAGACCAACATCGAGAACAAACAACAAGTTCTACATCATCCAGCTGCTCCAAGACAGCAACCGCT
 TCTTACCTGCTGGAACCGCTGGGGCCGTGTGGGAGAGGTGCGCCAGTCAAAGTCAACCACTTCACAAG
 GCTAGAAGATGCAAAGAAGGACTTTGAGAAGAAATTCGGGAAAAGACCAAGAACAACCTGGCAGAGCGG
 GACCACTTTGTGTCTACCCGGCAAGTACACACTTATCGAAGTACAGGCAGAGGATGAGGCCAGGAAG
 CTGTGGTGAAGGTGGACAGAGGCCAGTGAAGGACTGTGACTAAGCGGGTGCAGCCCTGCTCCCTGGACCC
 AGCCACGCAGAAGCTCATCACTAACATCTTCAGCAAGGAGATGTTCAAGAACACCATGGCCCTCATGGAC
 CTGGATGTGAAGAAGATGCCCTGGGAAAGCTGAGCAAGCAACAGATTGCACGGGTTTCGAGGCCCTTGG
 AGGCGCTGGAGGAGGCCCTGAAAGGCCCCACGGATGGTGGCCAAAGCCTGGAGGAGCTGTCTCACACTT
 TTACACCGTCATCCCGCACAACTTCGGCCACAGCCAGCCCGCCCATCAATTCCTGAGCTTCTGCGAG
 GCCAAGAAGGACATGCTGCTGGTGTGGCGGACATCGAGCTGGCCAGGCCCTGCAGGCAGTCTCTGAGC
 AGGAGAAGACGGTGGAGGAGGTGCCACACCCCTGGACCAGACTACCAGCTTCTCAAGTCCAGCTGCA
 GCTGCTAGACTCTGGAGCACCTGAGTACAAGGTGATACAGACCTACTTAGAACAGACTGGCAGCAACCC
 AAGTGCCTACACTTCAACACATCTGGAAGTAAACCAAGAAGGGGAGGAAGACAGATTCAGGCCCACT
 CCAAACCTGGTAATCGGAAGCTGCTGTGGCATGGCACCACATGGCCGTGGTGGCCGCACTCCTACTAG
 TGGGCTCCGCATCATGCCACATTCCTGGTGGCGTGTGGCAAGGCATCTACTTTGCCTCAGAGAACAGC
 AAGTCAGCTGGATATGTTATTGGCATGAAGTGTGGGGCCACCATGTCGGCTACATGTTCTGGGTGAGG
 TGGCCCTGGCAGAGAGCACCATATCAACACGGACAACCCAGCTTGAAGAGCCACCTCTGGCTTCGA
 CAGTGTCAATGCCGAGGCCACCCAGCCTGATCCGACCAGGACACTGAGTTGGAGCTGGATGGCCAG
 CAAGTGGTGGTGGCCAGGGCCAGCCTGTGCCCTGCCAGAGTTCAGCAGCTCCACATTCTCCAGAGCG
 AGTACCTCATCTACCAGGAGAGCCAGTGTGCGCTGCGCTACCTGCTGGAGGTCCACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217717 representing NM_001003935
 Red=Cloning site Green=Tags(s)

MAPKPKPWVQTEGPEKKKGRQAGREEDPFRSTAEALKAIPA EKRIIRVDPTCPLSSNPQTQVYEDYNCTL
 NQTNIENNNKFYIIQLLQDSNRFFTCWNRWGRVGEVQSKINHFTRLEDAKKDFEKKFREKTKNNWAER
 DHFVSHPGKYTLIEVQAEDEAEAVVKVDRGPVRTVTKRVQPCSLDPATQKLI TNIFSKEMFKNTMALMD
 LDVKKMPLGKLSKQIARGFEALEALEEALKGPTDGGQSL EELSSHFYTVIPHNFGHSQPPPINSPELLQ
 AKKDLLVLADIELAQALQAVSEQEKTV EEPHPLDRDYQLLKCQLQLLDSGAPEYKVIQTYLEQTGSNH
 RCPTLQHIWKVNQEGEEDRFQAHSKLG NRKLLWHGTNMAVVAAILTSGLRIMPHSGGRVKGKIYFASENS
 KSAGYVIGMKCGAHHVGYMFLGEVALGREHHINTDNPSLKSPPP GFDSVIARGHTEPDPTQDTELELDGQ
 QVVVPQGPVPCPEFSSSTFSQSEYLIYQESQCRLRYLLEVHL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001003935

ORF Size: 1599 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_001003935.2](#), [NP_001003935.2](#)

RefSeq Size: 2477 bp

RefSeq ORF: 1601 bp

Locus ID: 10039

Cytogenetics: 3p21.2

Protein Families: Druggable Genome

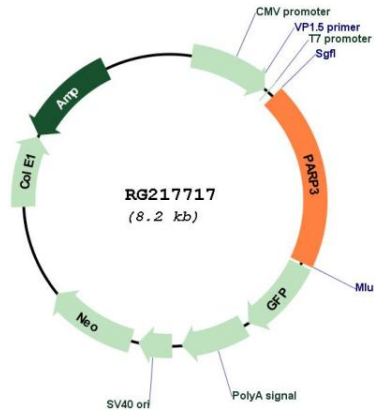
Protein Pathways:

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 RG217717