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Product datasheet for RC217717

PARP3 (NM_001003935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP3 (NM_001003935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARP3
Synonyms:	ADPRT3; ADPRTL2; ADPRTL3; hPARP-3; IRT1; pADPRT-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC217717 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCAAAGCCGAAGCCCTGGGTACAGACTGAGGGCCCTGAGAAGAAGAAGGGCCGGCAGGCAGGAA
GGGAGGAGGACCCCTTCCGCTCCACCGCTGAGGCCCTCAAGGCCATACCCGCAGAGAAGCGCATAATCCG
CGTGGATCCAACATGTCCACTCAGCAGCAACCCCGGGACCCAGGTGTATGAGGACTACAACTGCACCCTG
AACCAGACCAACATCGAGAACAACAACAACAAGTTCTACATCATCCAGCTGCTCCAAGACAGCAACCGCT
TCTTCACCTGCTGGAACCGCTGGGGCCGTGTGGGAGAGGTCGGCCAGTCAAAGATCAACCACTTCACAAG
GCTAGAAGATGCAAAGAAGGACTTTGAGAAGAAATTTCGGGAAAAGACCAAGAACAACTGGGCAGAGCGG
GACCACTTTGTGTCTCACCCGGGCAAGTACACACTTATCGAAGTACAGGCAGAGGATGAGGCCCAGGAAG
CTGTGGTGAAGGTGGACAGAGGCCCAGTGAGGACTGTGACTAAGCGGGTGCAGCCCTGCTCCCTGGACCC
AGCCACGCAGAAGCTCATCACTAACATCTTCAGCAAGGAGATGTTCAAGAACACCATGGCCCTCATGGAC
CTGGATGTGAAGAAGATGCCCCTGGGAAAGCTGAGCAAGCAACAGATTGCACGGGGTTTCGAGGCCTTGG
AGGCGCTGGAGGAGGCCCTGAAAGGCCCCACGGATGGTGGCCAAAGCCTGGAGGAGCTGTCCTCACACTT
TTACACCGTCATCCCGCACAACTTCGGCCACAGCCAGCCCCCGCCCATCAATTCCCCTGAGCTTCTGCAG
GCCAAGAAGGACATGCTGCTGGTGCTGGCGGACATCGAGCTGGCCCAGGCCCTGCAGGCAGTCTCTGAGC
AGGAGAAGACGGTGGAGGAGGTGCCACACCCCCTGGACCGAGACTACCAGCTTCTCAAGTGCCAGCTGCA
GCTGCTAGACTCTGGAGCACCTGAGTACAAGGTGATACAGACCTACTTAGAACAGACTGGCAGCAACCAC
AGGTGCCCTACACTTCAACACATCTGGAAAGTAAACCAAGAAGGGGAGGAAGACAGATTCCAGGCCCACT
CCAAACTGGGTAATCGGAAGCTGCTGTGGCATGGCACCAACATGGCCGTGGTGGCCGCCATCCTCACTAG
TGGGCTCCGCATCATGCCACATTCTGGTGGGCGTGTTGGCAAGGGCATCTACTTTGCCTCAGAGAACAGC
AAGTCAGCTGGATATGTTATTGGCATGAAGTGTGGGGCCCACCATGTCGGCTACATGTTCCTGGGTGAGG
TGGCCCTGGGCAGAGAGCACCATATCAACACGGACAACCCCAGCTTGAAGAGCCCACCTCCTGGCTTCGA
CAGTGTCATTGCCCGAGGCCACACCGAGCCTGATCCGACCCAGGACACTGAGTTGGAGCTGGATGGCCAG
CAAGTGGTGGTGCCCCAGGGCCAGCCTGTGCCCTGCCCAGAGTTCAGCAGCTCCACATTCTCCCAGAGCG
AGTACCTCATCTACCAGGAGAGCCAGTGTCGCCTGCGCTACCTGCTGGAGGTCCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217717 protein sequence
Red=Cloning site Green=Tags(s)

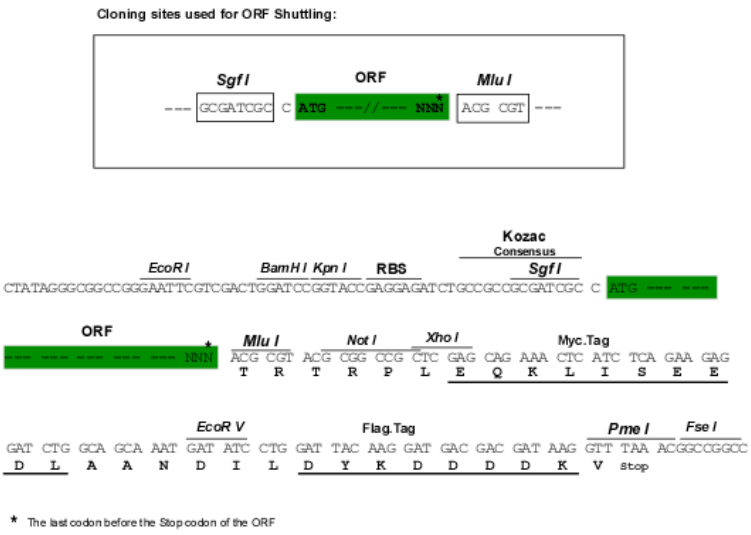
MAPKPKPWVQTEGPEKKKGRQAGREEDPFRSTAEALKAIPAEKRIIRVDPTCPLSSNPGTQVYEDYNCTL
NQTNIENNNNKFYIIQLLQDSNRFFTCWNRWGRVGEVGQSKINHFTRLEDAKKDFEKKFREKTKNNWAER
DHFVSHPGKYTLIEVQAEDEAQEAVVKVDRGPVRTVTKRVQPCSLDPATQKLITNIFSKEMFKNTMALMD
LDVKKMPLGKLSKQQIARGFEALEALEEALKGPTDGGQSLEELSSHFYTVIPHNFGHSQPPPINSPELLQ
AKKDMLLVLADIELAQALQAVSEQEKTVEEVPHPLDRDYQLLKCQLQLLDSGAPEYKVIQTYLEQTGSNH
RCPTLQHIWKVNQEGEEDRFQAHSKLGNRKLLWHGTNMAVVAAILTSGLRIMPHSGGRVGKGIYFASENS
KSAGYVIGMKCGAHHVGYMFLGEVALGREHHINTDNPSLKSPPPGFDSVIARGHTEPDPTQDTELELDGQ
QVVVPQGQPVPCPEFSSSTFSQSEYLIYQESQCRLRYLLEVHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_g06.zip

Restriction Sites: SgfI-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

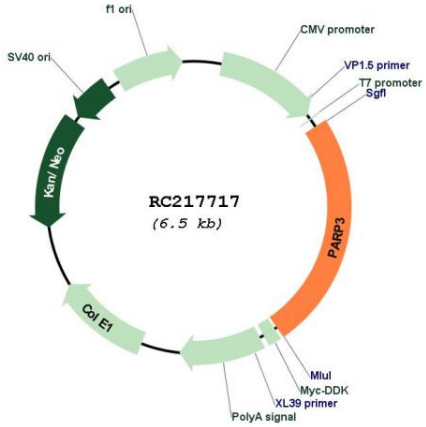
Protein Families: Druggable Genome

Protein Pathways: Base excision repair

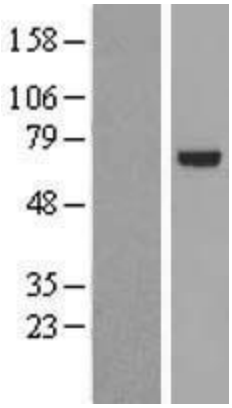
MW: 60.1 kDa

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 RC217717



Western blot validation of overexpression lysate (Cat# [LY424036]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217717 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).