

Product datasheet for **RC213586**

PARP2 (NM_001042618) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP2 (NM_001042618) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARP2
Synonyms:	ADPRT2; ADPRTL2; ADPRTL3; ARTD2; pADPRT-2; PARP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213586 representing NM_001042618
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGGGCGGCGACGGAGCACCGCGCGGCGAGGCGAGAGCATTAAATGAAAGCAAAGAGTTA
 ATAAATGGCAACACGGCTCCAGAAGACTCTCCCTGCCAAGAAAACCTCGTAGATGCCAGAGACAGGAGTC
 GAAAAAGATGCCTGTGGCTGGAGAAAAGCTAATAAGGACAGGACAGAAGACAAGCAAGATGAATCTGTG
 AAGGCCTTGCTGTTAAAGGGCAAAGCTCCTGTGGACCCAGAGTGTACAGCCAAGGTGGGGAAGGCTCATG
 TGTATTGTGAAGGAAATGATGTCTATGATGTATGCTAAATCAGACCAATCTCCAGTTCAACAACAACAA
 GTACTATCTGATTCAGCTATTAGAAGATGATGCCAGAGGAACTTCAGTGTGGATGAGATGGGCGCGA
 GTTGGGAAAATGGGACAGCACAGCCTGGTGGCTTGTTCAGGCAATCTCAACAAGGCCAAGGAAATCTTTC
 AGAAGAAATTCCTTGACAAAACGAAAAACAATTGGGAAGATCGAGAAAAGTTTGAGAAGGTGCCTGGAAA
 ATATGATATGCTACAGATGGACTATGCCACCAATACTCAGGATGAAGAGGAAAACAAGAAAGAGGAAATCT
 CTTAAATCTCCCTGAAGCCAGAGTCACAGCTAGATCTTCGGGTACAGGAGTTAATAAAGTTGATCTGTA
 ATGTTCCAGGCCATGGAAGAAATGATGATGGAATGAAGTATAATACCAAGAAAGCCCACTTGGGAGCT
 GACAGTGGCACAATCAAGGCAGGTTACCAGTCTCTTAAGAAGATTGAGGATTGATTCGGGCTGGCCAG
 CATGGACGAGCTCTCATGGAAGCATGCAATGAATTCTACACCAGGATCCGCATGACTTTGGACTCCGTA
 CTCCTCCACTAATCCGGACACAGAAGGAACTGTGAGAAAAATACAATTACTAGAGGCTTTGGGAGACAT
 TGAAATGCTATTAAGCTGGTGAACACAGAGCTACAAAGCCAGAACACCCATTGGACCAACACTATAGA
 AACCTACATTGTCCCTTGCGCCCTTGACCATGAAAGTTATGAGTTCAAAGTGATTTCCAGTACCTAC
 AATCTACCATGCTCCCACACACAGCAGCTATACCATGACCTTGCTGGATTTGTTTGAAGTGGAGAAGGA
 TGGTGAGAAAGAAGCCTTCAGAGAGGACCTTCATAACAGGATGCTTCTATGGCATGGTTCAGGATGAGT
 AACTGGGTGGGAATCTTGAGCCATGGGCTTCAATTGCCACCTGAAGCTCCCATCACAGTTACATGT
 TTGGGAAAGGAATCTACTTTGCTGACATGTCTTCAAGAGTGCCAATTACTGCTTTGCTCTCGCTAA
 GAATACAGGACTGCTGCTCTTATCAGAGGTAGCTTAGGTGAGTGAATGAACTACTAGAGGCCAATCT
 AAGGCCGAAGGATTGCTTCAAGTAAACATAGCACCAAGGGGCTGGGCAAGATGGCTCCAGTTCTGCC
 ACTTCGTCACCCTGAATGGGAGTACAGTGCCATTAGGACCAGCAAGTGACACAGGAAATCTGAATCCAGA
 TGGTTATACCCTCAACTACAATGAATATATTGTATATAACCCCAACCAGGTCGGTACCTTTTA
 AAGGTTCAAGTTAATTTCTTCAGCTGTGG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213586 representing NM_001042618
 Red=Cloning site Green=Tags(s)

MAARRRSTGGGRARALNESKRVNNGNTAPEDSSPAKTRRCQRQESKMPVAGGKANKDRTEKQDESV
 KALLLKGPVDPLECTAKVGKAHVYCEGNDVYDMLNQTNLQFNNNKYLLIQLLEDDAQRNFSVWMRWGR
 VGKMGQHSLVACSGNLNKAKEIFQKKFLDKTKNNWEDREKFEKVPKGYDMLQMDYATNTQDEEETKKEES
 LKSPKLPESQLDLRVQELIKL ICNVQAMEEMMEMKYNTKKAPL GKL TVAQIKAGYQSLKKIEDCIRAGQ
 HGRALMEACNEFYTRIPHDFGLRTPPL IRTQKELSEKIQLLEALGDIEIAIKLVKTELQSPEHPLDQHYR
 NLHCALRPLDHESEYEFKVISQYLQSTHAPTHSDYTMLLDLFEVEKDGEKEAFREDLHNRMLLWHGSRMS
 NWWGILSHGLRIAPPEAPITGYMFGKGIYFADMSKSNANYCFASRLKNTGLLLLSEVALGQCNELLEANP
 KAEGLLQKHKSTKGLGKMAPSSAHFVTLNGSTVPLGPASDTGILNPDGYTLNYNEYIVYNPQVVMRYLL
 KVQFNFLQLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_001042618.2
RefSeq Size:	1865 bp
RefSeq ORF:	1713 bp
Locus ID:	10038
UniProt ID:	Q9UGN5
Cytogenetics:	14q11.2
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
MW:	64.6 kDa
Gene Summary:	This gene encodes poly(ADP-ribosyl)transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. The basic residues within the N-terminal region of this protein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targeting of the protein. Two alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jul 2008]