

Product datasheet for **RG223373**

PARP2 (NM_005484) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP2 (NM_005484) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARP2
Synonyms:	ADPRT2; ADPRTL2; ADPRTL3; ARTD2; pADPRT-2; PARP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG223373 representing NM_005484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGGGCGGCGACGGAGCACCGGCGGCGGAGGCGAGAGCATTAAATGAAAGCAAAGAGTTA
 ATAAATGGCAACACGGCTCCAGAAGACTTCCCTGCCAAGAAAACCTCGTAGATGCCAGAGACAGGAGTC
 GAAAAAGATGCCTGTGGCTGGAGAAAAGCTAATAAGGACAGGACAGAAGACAAGCAAGATGGTATGCCA
 GGAAGGTCATGGGCCAGCAAAGGGTCTCTGAATCTGTGAAGGCCTTGCTGTTAAAGGGCAAAGCTCCTG
 TGGACCCAGAGTGTACAGCCAAGGTGGGAAGGCTCATGTGATTGTGAAGGAAATGATGCTATGATGT
 CATGCTAAATCAGACCAATCTCCAGTTCACAACAACAAGTACTATCTGATTGAGCTATTAGAAGATGAT
 GCCCAGAGGAACCTCAGTGTGGATGAGATGGGGCCGAGTTGGGAAAATGGGACAGCACAGCCTGGTGG
 CTTGTTACAGCAATCTCAACAAGGCCAAGGAAATCTTTCAGAAGAAATCCTTGACAAAACGAAAAACAA
 TTGGGAAGATCGAGAAAAGTTTGAAGGTGCCTGGAAAATATGATATGCTACAGATGGACTATGCCACC
 AATACTCAGGATGAAGAGGAAACAAAGAAAGAGGAATCTCTTAAATCTCCCTTGAAGCCAGAGTCACAGC
 TAGATCTTCGGGTACAGGAGTTAATAAAGTTGATCTGTAATGTTCAAGCCATGGAAGAAATGATGATGGA
 AATGAAGTATAATACCAAGAAAGCCCCTTGGGAAGCTGACAGTGGCACAAATCAAGGCAGGTTACCAG
 TCTCTTAAGAAGATTGAGGATTGATTCCGGCTGGCCAGCATGGACGAGCTCTCATGGAAGCATGCAATG
 AATTCTACACCAGGATCCGCATGACTTTGGACTCCGTAATCCGACTAATCCGGACACAGAAGGAACT
 GTCAGAAAAAACAATTAAGAGGCTTTGGGAGACATTGAAATTGCTATTAAGCTGGTAAAAACAGAG
 CTACAAAAGCCAGAACACCCATTGGACCAACACTATAGAAACCTACATTTGCTTGGCCCCCTTGACC
 ATGAAAGTTATGAGTTCAAAGTATTCCAGTACCTACAATACCCATGCTCCACACACAGCGACTA
 TACCATGACCTTGTGGATTTGTTTGAAGTGGAGAAGGATGGTGAGAAAAGAAGCCTTCAGAGAGGACCTT
 CATAACAGGATGCTTCTATGGCATGTTCCAGGATGAGTAACTGGGTGGGAATCTTGAGCCATGGGCTTC
 GAATTGCCCCACCTGAAGCTCCCATCACAGTTACATGTTTGGAAAGGAATCTACTTTGCTGACATGTC
 TTCCAAGAGTGCCAATTACTGCTTTGCCTTCGCCTAAAGAATACAGGACTGCTGCTTATCAGAGGTA
 GCTCTAGGTCAGTGAATGAACTACTAGAGGCCAATCCTAAGGCCGAAGGATTGCTTCAAGGTAACATA
 GCACCAAGGGGCTGGCAAGATGGCTCCAGTTCTGCCACTTCGTCACCCTGAATGGGAGTACAGTGCC
 ATTAGGACCAGCAAGTACACAGGAATTCTGAATCCAGATGGTTATACCCTCAACTACAATGAATATATT
 GTATATAACCCCAACCAGGTCCGTATGCGGTACCTTTTAAAGGTTCAAGTTAATTTCTTCAGCTGTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223373 representing NM_005484
 Red=Cloning site Green=Tags(s)

MAARRRSTGGGRARALNESKRVNNGNTAPEDSSPAKKTRRCQRQESKMPVAGGKANKDRTEKQDGM
 GRSWASKRVSESVKALLLKGPVDPLECTAKVGHVYCEGNDVYDVMLNQTNLQFNNNKYLLIQLLEDD
 AQRNFSVWWRWGRVGMQHSLVACSGNLNKAKEIFQKKFLDKTKNNWEDREKFEKVPKYDMLQMDYAT
 NTQDEEETKKEESLKSPLKPESQLDLRVQELIKL I CNVQAMEEMMEMKYNTKKAPLGLK T VAQIKAGYQ
 SLKKIEDCIRAGQHGRLMEACNEFYTRIPHDFGLRTPPLIRTQKELSEKIQLLEALGDIEIAIKLVKTE
 LQSPHEPLDQHYRNLHICALRPLDHESEYEFKVISQYLQSTHAPTHSDYTMLLDLFEVEKDGKEAFREDL
 HNRMLLWHGSRMSNWVGI LSHGLRIAPPEAITGYMFGKGIYFADMSKSNANYCFASRLKNTGLLLLSEV
 ALGQCNELLEANPKAEGLLQGHSTKGLGKMAPSSAHFVTLNGSTVPLGPASDTGILNPDGYTLNNEYI
 VYNPNQVRMRYLLKVFNFQLW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005484

ORF Size: 1749 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

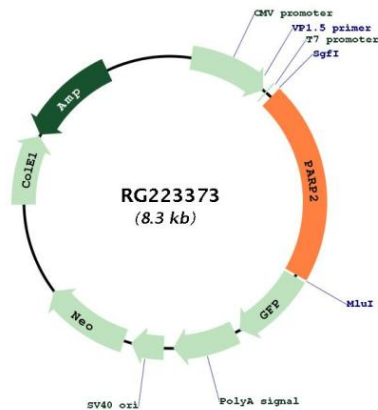
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005484.4](#)
RefSeq Size: 1904 bp
RefSeq ORF: 1752 bp
Locus ID: 10038
UniProt ID: [Q9UGN5](#)
Cytogenetics: 14q11.2
Domains: PARP, PARP_reg
Protein Families: Druggable Genome
Protein Pathways: Base excision repair
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]

Product images:



Circular map for RG223373