

Product datasheet for **RC202846**

PARP16 (NM_017851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARP16 (NM_017851) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PARP16
Synonyms:	ARTD15; C15orf30; pART15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202846 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCCTCAGGCTGGGCGGCCAGGGAGGCGGGCCGCGACATGCTGGCCGCGACCTCCGGT
GCAGCCTCTTCGCTCGGCCCTGCAGAGCTACAAGCGCGACTCGGTGCTGCGGCCCTCCCCGCGTCTA
CGCCCGCGGCGACTGTAAGGACTTTGAAGCCCTGCTTGCAGATGCCAGCAAGTTACCTAACCTGAAAGAA
CTTCTCCAGTCTCCGGAGACAACCACAAACGGGCCTGGGACCTGGTGAGCTGGATTTTATCCTCAAAGG
TCCTGACAATCCACAGTGCAGGGAAGGCAGAGTTTAAAAGATCCAAAAGCTGACTGGGGCTCCTCACAC
GCCTGTTCTGCACCGGACTTCTGTTTAAAATTGAGTACTTTGACCCAGCCAACGCCAAATTTTATGAG
ACCAAAGGAGAACGAGACCTAATCTATGCAATTCATGGTAGCCGCTAGAAAACCTCCATTCCATTATCC
ACAATGGCCTGCACTGCCATCTGAACAAGACATCCTTGTTCGGAGAGGGGACCTACCTCACCAGTGACTT
GAGCCTGGCCCTCATATACAGCCCCATGGCCATGGGTGGCAGCACAGCCTCCTCGGCCCATCCTTAGC
TGTGTGGCCGTGTGTGAGGTCAATGACCATCCGGACGTCAAGTGCCAAACCAAGAAGAAGGATCCAAGG
AGATAGATCGCAGACGAGCGAGAATCAAACATAGTGAAGGGGAGACATCCCTCCAAGTACTTCGTGGT
CACCAATAACCAGCTGCTGCGAGTGAAGTACCTCCTGGTGTATTCACAGAAGCCACCCAAGAGCAGGGCT
TCGAGCCAGCTCTCCTGGTTTTCCAGCCATTGGTTTACCGTCATGATATCCCTGTATCTGCTGCTGCTGC
TCATAGTGAGTGTCATCAACTCCTCTGCTTTCCAACACTTTTGAATCGTGCGAAAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202846 protein sequence
Red=Cloning site Green=Tags(s)

MQPSGWAAAREAAGRDMLAADLRCSLFFASALQSYKRDSVLRPFPASYARGDCKDFEALLADASKLPNLKE
 LLQSSGDNHKRAWDLVSWILSSKVLTIHSAGKAEFEKIQLTGAPHTPVPAPDFLFEIEYFDPANAKFYE
 TKGERDLIYAFHGSRLNFHFSIIHNLHCHLNKTSLFGEGTYL TSDLALALIYSPHGHGWQHSLLGPILS
 CVAVCEVIDHPDVKQCQTKKKDSKEIDRRRARIKHSEGGDIPPKYFVVTNNQLLRVKYLLVYSQKPPKSRA
 SSQLSWFSSHWFVYMISLYLLLLLIVSVINSSAFQHFVWRAKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6071_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017851

ORF Size: 969 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_017851.6](#)

RefSeq Size: 2551 bp

RefSeq ORF: 972 bp

Locus ID: 54956

UniProt ID: [Q8N5Y8](#)

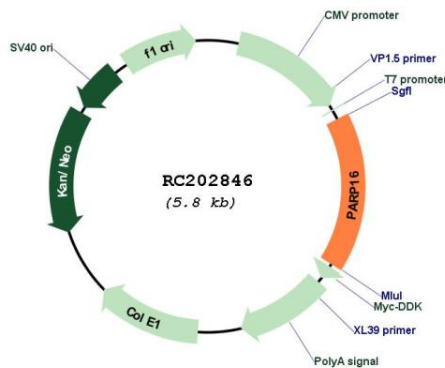
Cytogenetics: 15q22.31

Protein Families: Transmembrane

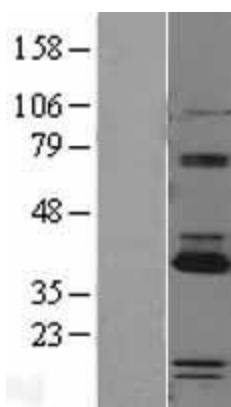
MW: 36.5 kDa

Gene Summary: Intracellular mono-ADP-ribosyltransferase that may play a role in different processes through the mono-ADP-ribosylation of proteins involved in those processes (PubMed:23103912, PubMed:22701565, PubMed:25043379). May play a role in the unfolded protein response (UPR), by ADP-ribosylating and activating EIF2AK3 and ERN1, two important UPR effectors (PubMed:23103912). May also mediate mono-ADP-ribosylation of karyopherin KPNB1 a nuclear import factor (PubMed:22701565). May not modify proteins on arginine or cysteine residues compared to other mono-ADP-ribosyltransferases (PubMed:22701565). [UniProtKB/Swiss-Prot Function]

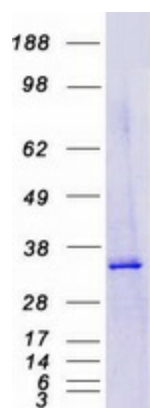
Product images:



Circular map for RC202846



Western blot validation of overexpression lysate (Cat# [LY402632]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PARP16 protein (Cat# [TP302846]). The protein was produced from HEK293T cells transfected with PARP16 cDNA clone (Cat# RC202846) using MegaTran 2.0 (Cat# [TT210002]).