

Product datasheet for **RR203347**

Parp16 (NM_001014093) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Parp16 (NM_001014093) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Parp16
Synonyms: ARTD15; LRRGT00109; RGD1306243
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203347 representing NM_001014093
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCTCTCCAACAGGGCGGCAGCCAGGGAGTCGGTGAGCCGCGACGTGCTGGCCGGGACCTCCGCT
 GCAGCCTCTTCGCCTCAGCGCTGCAGAGCTACAAGCGGGACTCGGTGCTGCGGCCCTTCCCCGCCTCCTA
 CGCCCGCCAGACTGTAAGGACTTCGAGGCCCTGCTTGGGACACTGGCAGGTTACCTAACTTGAAGGAA
 TTCTGTCAGTCTCCAGGACACAGACAAACAGACCTGGGACCTGGTGAGCTGGATTCTATCCTCCAAGA
 TCCTGACAATCCACAGTGCAGAGAAGGCCGAGTTTAAAAAGATCCAGCAGCTGACCGGTGCACCTCACAC
 ACCTGTCCCCATCCCAGATTTCTTTTTGAAATTGAGTACTTTGACCCGGCCAATGCCAGATTCTATGAG
 ACCAAAGGAGGGCGGAGACCTGATCTATGCCTTCCATGGCAGCCGCTAGAGAACTTCCATTCATCATT
 ACAACGGCCTGCATTGTCACCTGAACAAGACTTCTCTGTTGGAGAGGGGACCTACCTCACAAGTGACTT
 GAGCCTGGCCCTCATTTATAGTCTCACGGCCGTGGTGCCAGCATAGCCTCCTTGCCAGACCCCTAGC
 TGTGTAGCTGTGTGTGAGGTCACTGACCATCCAGATGTCAAGTGCCAAACCAAGAAGAAGATTCCAAGG
 AAATCGACCGCAGCAGAGCTCGAATCAAGCACAGCGAAGGGGAGATGTCCCCCTAAGTACTTTGTAGT
 CACTAACAACCAGCTTCTGCGGGTGAAGTACCTACTGGTATTCCAGAAAGCAGCCCAAGAGGGCCTCG
 AGCCAGCTTTCTGGCTGTGCAGCCATTGGTTCATGGTCGCGATGTCCCTCTATCTGCTGCTGCTCA
 TCGTCAGTGTACCAACTCTCTGCCTTCCAGCACTTCTGGAATCGCCTGAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203347 representing NM_001014093
Red=Cloning site Green=Tags(s)

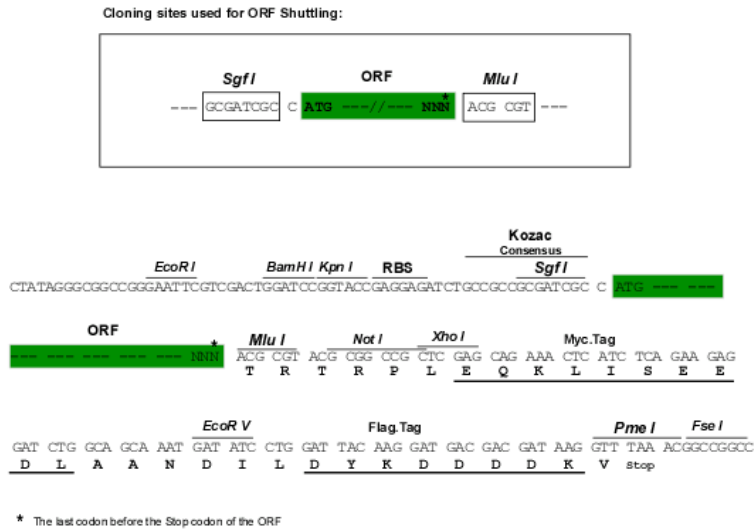
MQLSNRAAARESVS RDVLAADLRCSLFSASLQSYKRDSVLRPFPASYPARHDCDFEALLADTGRLPNLKE
 LLQSSRDTKQTWDLVSWILSSKILTIHSAEKAEFEKIQLTGAPHTPVPVPDFLFEIEYFDPANARFYE
 TKGGRDLIYAFHGSRLNFHFSIIHNLHCHLNKTSLFGEGTYL TSDLAL IYSPHGRGWQHSLLGQTLS
 CVAVCEVIDHPDVKQCQTKKKDSKEIDRSRARIKHSEGGDVPPKYFVVTNNQLLRVKYLLVYSQKQPKRAS
 SQLSWLCSHWFMVAMSLYLLLLLIVSVTNSSAFQHFWRNLKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

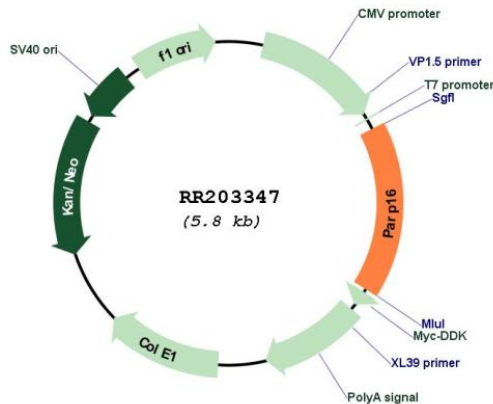
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014093

ORF Size: 966 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:	<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_001014093.1 , NP_001014115.1
RefSeq Size:	2336 bp
RefSeq ORF:	969 bp
Locus ID:	315760
UniProt ID:	Q5U2Q4
Cytogenetics:	8q24
MW:	36.7 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. May play a role in the unfolded protein response (UPR), by ADP-ribosylating and activating EIF2AK3 and ERN1, two important UPR effectors. May also mediate mono-ADP-ribosylation of karyopherin KPNB1 a nuclear import factor. May not modify proteins on arginine or cysteine residues compared to other mono-ADP-ribosyltransferases.[UniProtKB/Swiss-Prot Function]