

Product datasheet for **MR204648**

Parp16 (NM_177460) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parp16 (NM_177460) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Parp16
Synonyms:	ARTD15; BC055447; C79952; PARP-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204648 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCTCCAACAGGGCAGCAGCCAGGGAGGCAGCGAGCCGCGACGTGCTGGCTGCGGACCTCCGCT
GCAGCCTCTTCGCTCGGCGCTGCAGAGCTACAAGCGGGACTCGGTGCTGCGGCCCTTCCCCGCCTCCTA
CGCCCGCCACGACTGTAAGGACTTCGAGGCCCTGCTTGCAGACTGGCAGGTTACCCAACCTGAAGGAA
CTTCTACAGTCTCCAGAGACACAGACAAACAGGCCTGGGACCTGGTGAGCTGGATTTTATCCTCCAAGA
TCCTGACAATCCACAGTGCCAAGAAGGCAGAGTTTGAAGATCCAGCAGCTGACCGCGCCCTCACAC
ACCTGTCCCACCCGGATTTCTATTTGAAATTGAGTACTTTGACCCGCAACTCCAGATTTTATGAG
ACCAAAGGAGAACGAGACCTAATCTATGCCTTCCATGGTAGCCGCTAGAGAACTTCCACTCCATCATT
ACAATGGCCTGCACTGCCACCTGAACAAGACTTCTCTGTTGGAGAGGGGACCTACCTCACAAGTGACTT
GAGCCTGGCCCTCATTTATAGTCTCATGGCCACGGGTGGCAACATAGCCTTCTTGGCCCGATCCTGAGC
TGCGTAGCTGTGTGTGAGGTGATCGATCATCCAGATGTCAAGTGCCAAATCAAGAAGAAGGATCCAAGG
AAATAGACCGCAGCCGAGCAAGAATCAAGCACAGCGAGGGGGAGAGATCCCCCTAAGTACTTTGTAGT
CACCAATAACAGCTTCTGCGGGTGAAGTACCTGCTGGTGTATCCAGAAAGCAGCCCAAGAGGGCCTCG
AGCCAGCTCTCCTGGTTGTCAGCCACTGGTTCGTGATCATGATGTCCTGTATCTGCTGCTGCTGCTCA
TCGTGAGTGTACCAACTCCTCTCGTTCACCACTTCTGGAATCGTGTGAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204648 protein sequence
 Red=Cloning site Green=Tags(s)

MQLSNRAAAREASRDVLAADLRCSLFFASALQSYKRDSVLRPFPASYARHDKDFEALLADTGRLPNLKE
 LLQSSRDTDKQAWDLVSWILSSKILTIHSAKKAEFEKIQQLTGAPHTVPVTPDFLFEIEYFDPANSRFYE
 TKGERDLIYAFHGSRLNFHFSIIHNLHCHLNKTSLFGEGTYL TSDLALALIYSPHGHGWQHSLLGPILS
 CVAVCEVIDHPDVKQCQIKKKDSKEIDRSRARIKHSEGG EIPPKYFVVTNNQLLRVKYLLVYSQKQPKRAS
 SQLSWLSSHWFVIMMSLYLLLLLIVSVTNSSAFHHFWNRVKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177460

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_177460.3](#), [NP_803411.2](#)

RefSeq Size: 2483 bp

RefSeq ORF: 969 bp

Locus ID: 214424

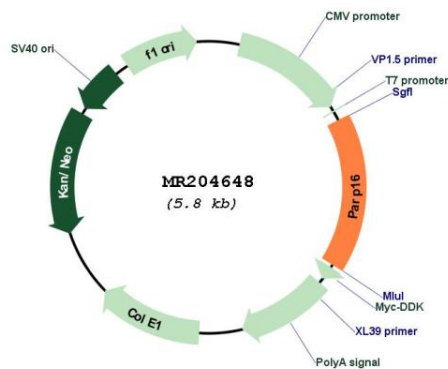
UniProt ID: [Q7TMM8](#)

Cytogenetics: 9 C

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]

Product images:



Circular map for MR204648