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Product datasheet for MC205926

Parp3 (NM_145619) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parp3 (NM_145619) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Parp3
Synonyms:	A930002C11Rik; Adprt3; Adprtl3; AW990611; pADPRT-3; PARP-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC058754
CGGGGAACACCTCGAGCCAACTGCTTCCTAACTCCAGGGTGGGCAGAACTGACGGGATCTAAGCTTCTGC
ATCTCTGAGGAGAACCATGGCTCCAAAACGAAAGGCCTCTGTGCAGACTGAGGGCTCCAAGAAGCAGCGA
CAAGGGACAGAGGAGGAGGACAGCTTCCGGTCCACTGCCGAGGCTCTCAGAGCAGCACCTGCTGATAATC
GGGTCATCCGTGTGGACCCCTCATGTCCATTCAGCCGGAACCCCGGGATACAGGTCCACGAGGACTATGA
CTGTACCCTGAACCAGACCAACATCGGCAACAACAACAACAAGTTCTATATTATCCAACTGCTGGAGGAG
GGTAGTCGCTTCTTCTGCTGGAATCGCTGGGGCCGCGTGGGAGAGGTGGGCCAGAGCAAGATGAACCACT
TCACCTGCCTGGAAGATGCAAAGAAGGACTTTAAGAAGAAATTTTGGGAGAAGACTAAAAACAAATGGGA
GGAGCGGGACCGTTTTGTGGCCCAGCCCAACAAGTACACACTTATAGAAGTCCAGGGAGAAGCAGAGAGC
CAAGAGGCTGTAGTGAAGGTGGACAGCGGCCCTGTGAGGACCGTGGTCAAGCCCTGCTCCCTAGACCCTG
CCACCCAGAACCTTATCACCAACATCTTCAGCAAAGAGATGTTCAAGAACGCAATGACCCTCATGAACCT
GGATGTGAAGAAGATGCCCTTGGGAAAGCTGACCAAGCAGCAGATTGCCCGTGGCTTCGAGGCCTTGGAA
GCTCTAGAGGAGGCCATGAAAAACCCCACAGGGGATGGCCAGAGCCTGGAAGAGCTCTCCTCCTGCTTCT
ACACTGTCATCCCACACAACTTCGGCCGCAGCCGACCCCCGCCCATCAACTCCCCTGATGTGCTTCAGGC
CAAGAAGGACATGCTGCTGGTGCTAGCGGACATCGAGTTGGTGCAGACCTTGCAGGCAGCCCCTGGGGAG
GAGGAGGAGAAAGTGGAAGAGGTGCCACACCCACTGGATCGAGACTACCAGCTCCTCAGGTGCCAGCTTC
AACTGCTGGACTCCGGGGAGTCCGAGTACAAGGCAATACAGACCTACCTGAAACAGACTGGCAACAGCTA
CAGGTGCCCAAACCTGCGGCATGTTTGGAAAGTGAACCGAGAAGGGGAGGGAGACAGGTTCCAGGCCCAC
TCCAAACTGGGCAATCGGAGGCTGCTGTGGCACGGCACCAATGTGGCCGTGGTGGCTGCCATCCTCACCA
GTGGGCTCCGAATCATGCCACACTCGGGTGGTCGTGTTGGCAAGGGTATTTATTTTGCCTCTGAGAACAG
CAAGTCAGCTGGCTATGTTACCACCATGCACTGTGGGGGCCACCAGGTGGGCTACATGTTCCTGGGCGAG
GTGGCCCTCGGCAAAGAGCACCACATCACCATCGATGACCCCAGCTTGAAGAGTCCACCCCCTGGCTTTG
ACAGCGTCATCGCCCGAGGCCAAACCGAGCCGGATCCCGCCCAGGACATTGAACTTGAACTGGATGGGCA
GCCGGTGGTGGTGCCCCAAGGCCCGCCTGTGCAGTGCCCGTCATTCAAAAGCTCCAGCTTCAGCCAGAGT
GAATACCTCATATACAAGGAGAGCCAGTGTCGCCTGCGCTACCTGCTGGAGATTCACCTCTAAGCTGCTT
GCCCTCCCCAGGTCCTGCCCTGCCGAGCCATGATCTTCACCCTCCTCTCCCTGGCTCTCACAGCACTTTG
TCTGCCTCCCAGGAATATAATACATGCCAGGCATTGGCACACACCAGTAGCCTCAGCTACTCAGGGGGCA
GAGGCAAGAAAAACACTTTATCCTGGGATCTGGACTCTCACCTAGGCTACATAGTAACACGTGTCTCAAA AAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145619

Insert Size: 1587 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: BC058754, AAH58754

RefSeq Size:	1905 bp
RefSeq ORF:	1587 bp
Locus ID:	235587
UniProt ID:	Q8CFB8
Cytogenetics:	9 F1
Gene Summary:	Mono-ADP-ribosyltransferase that mediates mono-ADP-ribosylation of target proteins and plays a key role in the response to DNA damage (PubMed:21270334, PubMed:24598253). Mediates mono-ADP-ribosylation of glutamate, aspartate or lysine residues on target proteins (By similarity). In contrast to PARP1 and PARP2, it is not able to mediate poly-ADP-ribosylation (By similarity). Associates with a number of DNA repair factors and is involved in the response to exogenous and endogenous DNA strand breaks (PubMed:21270334). Together with APLF, promotes the retention of the LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-joining (NHEJ) (By similarity). Cooperates with the XRRC6-XRCC5 (Ku70-Ku80) heterodimer to limit end-resection thereby promoting accurate NHEJ (PubMed:24598253). Involved in DNA repair by mediating mono-ADP-ribosylation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism, such as XRRC5 and XRCC6 (By similarity). ADP-ribosylation follows DNA damage and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks (By similarity). May link the DNA damage surveillance network to the mitotic fidelity checkpoint (By similarity). In addition to proteins, also able to ADP-ribosylate DNA: mediates DNA mono-ADP-ribosylation of DNA strand break termini via covalent addition of a single ADP-ribose moiety to a 5'- or 3'-terminal phosphate residues in DNA containing multiple strand breaks (By similarity). Acts as a negative regulator of immunoglobulin class switch recombination, probably by controlling the level of AICDA /AID on the chromatin (PubMed:26000965).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.