

Product datasheet for MC209991

Prdx5 (NM_012021) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdx5 (NM_012021) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prdx5
Synonyms:	AOEB1; AOEB166; AOPP; P; PLP; PMP; Pmp20; Prd; Prdx6; PrxV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209991 representing NM_012021 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTACAGCTGGGGCTTCGAGTCCTGGGCTGCAAAGCCAGTTCTGTGCTCCGTGCATCGACGTGCTTGG
CAGGCAGAGCAGGCCGAAAGAAGCAGTTGGGAGTGTGGCGAGCCCGAGCTTCAGCAGCTCCGCGGT
GACCATGGCCCCGATCAAGGTGGGAGATGCCATCCCTCAGTGGAGGATTTGAAGGGGAACCGGGAAAG
AAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAAGGTGTTTTGTTGGAGTCCCTGGGCATTTACAC
CTGGCTGTTCTAAGACCCACCTGCCTGGGTTTGTGGAGCAAGCTGGAGCTCTGAAGCCAAGGGAGCGCA
GGTGGTGGCCTGTCTGAGCGTTAATGACGTCTTTGTGATTGAAGAGTGGGGTCGAGCCCACCAGGCAGAA
GGCAAGGTTCCGGCTCCTGGCTGACCCCACTGGAGCCTTTGGGAAGCGCAGACTTATTATTGGATGATT
CTTTGGTGTCTCTCTTTGGGAATCGTCGGCTGAAAAGGTTCTCCATGGTGATAGACAACGGCATAGTGAA
GGCACTGAACGTGGAGCCAGATGGCACAGGCCTCACCTGCAGCCTGGCCCCAACATCCTCTCAACTC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_012021
Insert Size:	633 bp



[View online »](#)

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](#)

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: [BC008174](#), [AAH08174](#)

RefSeq Size: 1218 bp

RefSeq ORF: 633 bp

Locus ID: 54683

UniProt ID: [P99029](#)

Cytogenetics: 19 5.08 cM

Gene Summary: This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites may result in use of alternate in-frame translation start codons that generate alternate isoforms that are targeted to the mitochondrion or peroxisome/cytoplasm. [provided by RefSeq, Nov 2017]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).