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Product datasheet for MR224040

Prdx5 (NM_012021) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdx5 (NM_012021) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)

ORF Nucleotide Sequence:

>MR224040 representing NM_012021
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACAGCTGGGGCTTCGAGTCCTGGGCTGCAAAGCCAGTTCTGTGCTCCGTGCATCGACGTGCTTGG
CAGGCAGAGCAGGCCGGAAAGAAGCAGGTTGGGAGTGTGGCGGAGCCCGCAGCTTCAGCAGCTCCGCGGT
GACCATGGCCCCGATCAAGGTGGGAGATGCCATTCCCTCAGTGGAGGTATTTGAAGGGGAACCGGGAAAG
AAGGTGAACTTGGCAGAGCTGTTCAAGGGCAAGAAAGGTGTTTTGTTTGGAGTCCCTGGGGCATTTACAC
CTGGCTGTTCTAAGACCCACCTGCCTGGGTTTGTGGAGCAAGCTGGAGCTCTGAAGGCCAAGGGAGCGCA
GGTGGTGGCCTGTCTGAGCGTTAATGACGTCTTTGTGATTGAAGAGTGGGGTCGAGCCCACCAGGCAGAA
GGCAAGGTTCGGCTCCTGGCTGACCCCACTGGAGCCTTTGGGAAGGCGACAGACTTATTATTGGATGATT
CTTTGGTGTCTCTCTTTGGGAATCGTCGGCTGAAAAGGTTCTCCATGGTGATAGACAACGGCATAGTGAA
GGCACTGAACGTGGAGCCAGATGGCACAGGCCTCACCTGCAGCCTGGCCCCCAACATCCTCTCTCAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224040 representing NM_012021
Red=Cloning site Green=Tags(s)

MLQLGLRVLGCKASSVLRASTCLAGRAGRKEAGWECGGARSFSSSAVTMAPIKVGDAIPSVEVFEGEPGK
KVNLAELFKGKKGVLFGVPGAFTPGCSKTHLPGFVEQAGALKAKGAQVVACLSVNDVFVIEEWGRAHQAE
GKVRLLADPTGAFGKATDLLLDDSLVSLFGNRRLKRFSMVIDNGIVKALNVEPDGTGLTCSLAPNILSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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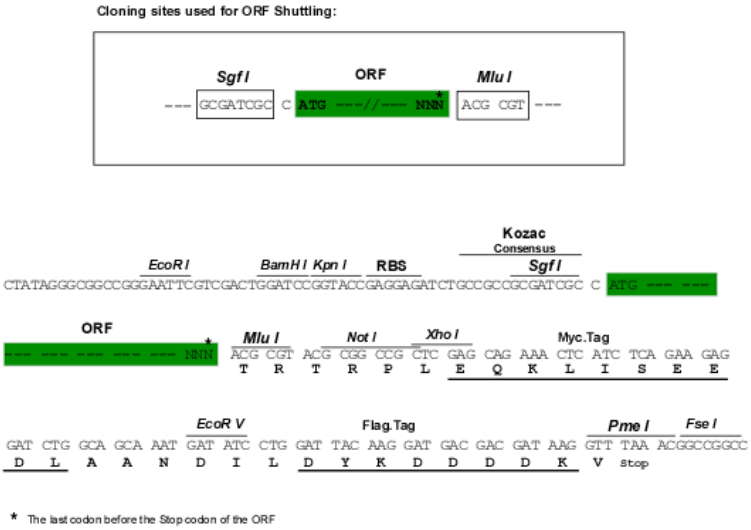
Chromatograms: https://cdn.origene.com/chromatograms/ja2491_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012021

ORF Size: 633 bp

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

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_012021.3

RefSeq Size: 688 bp

RefSeq ORF: 633 bp

Locus ID: 54683

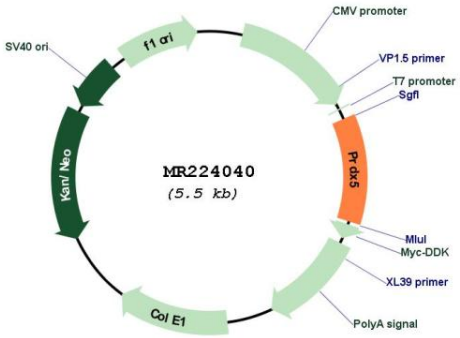
UniProt ID: P99029

Cytogenetics: 19 5.08 cM

MW: 21.9 kDa

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]

Product images:



Circular map for MR224040