

Product datasheet for MR203677

Prdx4 (NM_016764) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdx4 (NM_016764) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prdx4
Synonyms:	AOE372; Prx-iv; Prx4; TRANK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203677 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGGCGCGGTCCAAGCTGCTGGACGGGACCACGGCGTCCCGTCGCTGGACCCGAAAGCTGGTGTTC
 TCCTGCCGCCGCTGCTGCTGTTCTGTTGCGGACCGAATCTCTGCAAGGCTTGGAGAGTGATGAACGGTT
 CCGGACCCGCGAAAATGAGTGCCACTTCTACGCTGGTGGACAAGTGATACCCGGGGAGGCGTCCCGGGTT
 TCAGTCGCGGATCACTCCCTGCATCTAAGCAAAGCCAAGATCTCCAAGCCAGCACCTTATTGGGAAGGAA
 CAGCTGTGATTAACGGAGAATTCAAGGAGCTCAAAGTACTGACTGACTATCGTGGGAAATACTTGGTTTTTTT
 CTCTACCCACTGGATTTACCTTTGTGTGTCCAAGTAAATCATCGCTTTTGGGGATCGAATTGAAGAA
 TTCAAATCTATAAATACTGAAGTGGTAGCATGCTCTGTTGACTCTCAGTTTACCCACTTGGCCTGGATTA
 ATACCCCTCGAAGACAAGGAGGACTGGGGCCAATAAGGATTCCACTTCTTTCTGACCTGAACCATCAGAT
 CTCAAAGGACTATGGTGATACCTTGAAGACTCAGGACATACTCTTAGAGGCCTCTTTATTATCGATGAC
 AAAGGAGTCCTGAGGCAGATTACTCTGAATGACCTTCTGTGCGGAAGATCAGTGGACGAGACACTGCGTT
 TGGTTCAAGCCTTCCAGTACACTGACAAGCATGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGA
 AACAATAATCCCAGATCCAGCTGGAAAAGTGAAGTATTTTCGACAAGCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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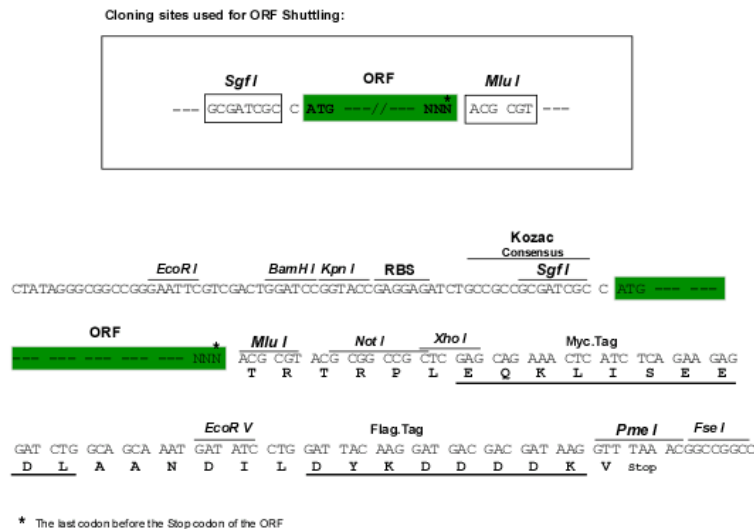
Protein Sequence: >MR203677 protein sequence
 Red=Cloning site Green=Tags(s)

MEARSKLLDGTASRRWTRKLVLLLPPLLFLLRTESLQGLESDFRTRENECHFAYAGGQVYPGEASRV
 SVADHSLHLSKAKISKAPYWEGTAVINGEFKELKLTDRGKYL VFFFYPLDFTFVCPTEIIAFGDRIEE
 FKSINTEVVACSVDSQFTHLAWINTPRRQGGLPRIPLLSDLNHQISKDYGVYLED SGHTLRGLFIID
 KGVLRQITLNDLPVGRSVDETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGLKLYFDKLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016764

ORF Size: 822 bp

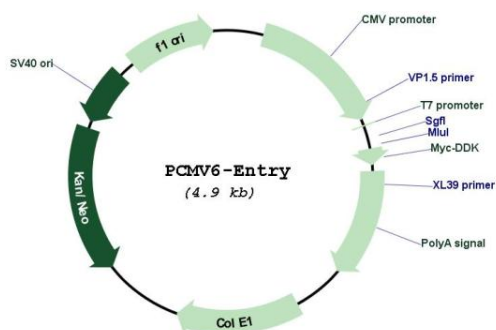
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_016764.5</u>
RefSeq Size:	975 bp
RefSeq ORF:	825 bp
Locus ID:	53381
UniProt ID:	<u>O08807</u>
Cytogenetics:	X 72.38 cM
MW:	31.1 kDa
Gene Summary:	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events (PubMed:11229364). Regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203677