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Product datasheet for MG202617

Prdx6 (NM_007453) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdx6 (NM_007453) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prdx6
Synonyms:	1-cys; 1-Cys Prx; 1-cysPrx; 9430088D19Rik; a; AA690119; aiPLA2; Aop2; Brp-; Brp-12; CP-; CP-3; GP; GPx; LPCAT-5; Ltw; Ltw-; Ltw-4; Ltw4; Lvtw; Lvtw-4; N; NSGPx; ORF06; Prdx5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202617 representing NM_007453
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCGGAGGGTTGCTTCTCGGGGACGAAGCCCCCAACTTTGAGGCCAATACCACCATCGGCCGCATCC
GCTTCCACGATTTCCTGGGAGATTCATGGGGCATTCTCTTTTCCCACCCACGGGACTTTACCCCAGTGTG
CACCACAGAACTTGGCAGAGCTGCAAAGCTGGCGCCAGAGTTTGCCAAGAGGAATGTTAAGTTGATTGCT
CTTTCAATAGACAGTGTTGAGGATCATCTTGCCTGGAGCAAGGACATCAATGCTTACAATGGTGAAACAC
CCACGGAAAAGTTGCCATTTCCCATCATTGATGATAAGGGCAGGGACCTTGCCATCCTTTTGGGCATGTT
GGATCCAGTCGAGAAGGACGCTAACAACATGCCTGTGACGGCCCGTGTGGTGTTCATTTTTGGCCCTGAC
AAGAAACTGAAGCTGTCTATCCTCTACCCTGCCACCACGGGCAGGAACTTTGATGAGATTCTCAGAGTGG
TTGACTCTCTCCAGCTGACAGGCACAAAGCCGGTTGCCACCCCAGTTGACTGGAAGAAGGGAGAGAGCGT
GATGGTAGTTCCCACCCTCTCCGAAGAGGAAGCCAAACAATGTTTCCCTAAAGGAGTCTTCACCAAAGAG
CTCCCGTCTGGCAAAAAATACCTCCGTTATACACCCCAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG202617 representing NM_007453
Red=Cloning site Green=Tags(s)

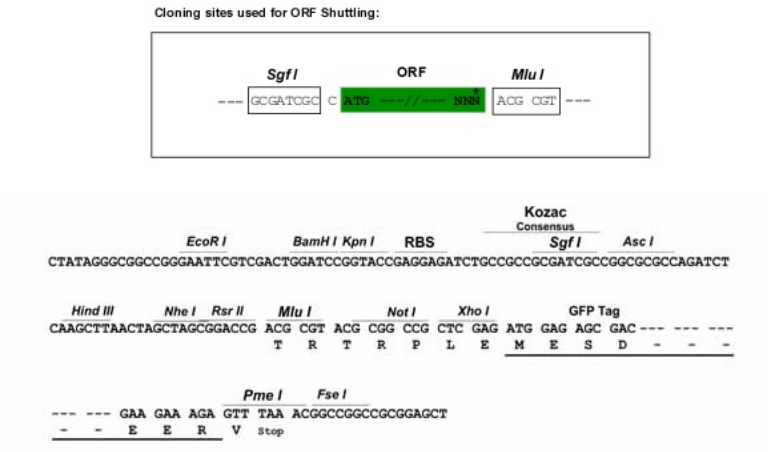
MPGGLLLGDEAPNFEANTTIGRIRFHDFLGDSWGILFSHPRDFTPVCTTELGRAAKLAPEFAKRNVKLIA
LSIDSVEDHLAWSKDINAYNGETPTEKLPFPIIDDKGRDLAILLGMLDPVEKDANNMPVTARVVFIFGPD
KKLKLSILYPATTGRNFDEILRVVDSLQLTGTKPVATPVDWKKGESVMVVPTLSEEEAKQCFPKGVFTKE
LPSGKKYLRYTPQP

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3465_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007453

ORF Size: 672 bp

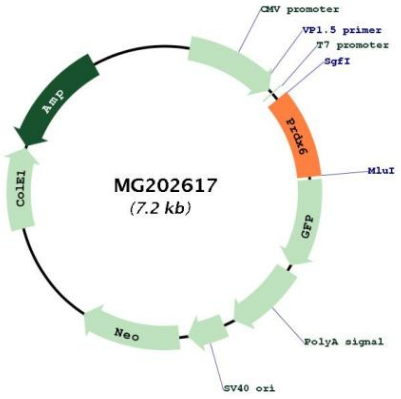
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_007453.4
RefSeq Size:	2334 bp
RefSeq ORF:	675 bp
Locus ID:	11758
UniProt ID:	O08709
Cytogenetics:	1 69.75 cM
Gene Summary:	This gene encodes a member of the peroxiredoxin family of peroxidases. The encoded protein is a bifunctional enzyme that has glutathione peroxidase and phospholipase activities. This protein is an antioxidant that reduces peroxidized membrane phospholipids and plays an important role in phospholipid homeostasis based on its ability to generate lysophospholipid substrate for the remodeling pathway of phospholipid synthesis. Mice lacking this gene are sensitive to oxidant stress, have altered lung phospholipid metabolism and susceptible to skin tumorigenesis. Alternate splicing of this gene results in multiple transcript variants. A pseudogene of this gene is found on chromosome 4. [provided by RefSeq, Dec 2014]

Product images:



Circular map for MG202617