

## Product datasheet for **MC226261**

### Prdx6 (NM\_001303408) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prdx6 (NM_001303408) Mouse Untagged Clone
Tag:	Tag Free
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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226261 representing NM_001303408 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGGCATCTTAAGATGAGATGGGGCATTCTTTTTCCACCCACGGGACTTTACCCAGTGTGCA  
CCACAGAACTTGGCAGAGCTGCAAAGCTGGCGCCAGAGTTGCCAAGAGGAATGTTAAGTTGATTGCTCT  
TTCAATAGACAGTGTGAGGATCATCTTGCCTGGAGCAAGGACATCAATGCTTACAATGGTAAACACCC  
ACGGAAAAGTTGCCATTTCCCATCATTGATGATAAGGGCAGGGACCTTGCCATCCTTTTGGGCATGTTGG  
ATCCAGTCGAGAAGGACGCTAACAACATGCCTGTGACGGCCCGTGTGGTGTTCATTTTTGGCCCTGACAA  
GAAACTGAAGCTGTCTATCCTCTACCCTGCCACCACGGGCAGGAACTTTGATGAGATTCTCAGAGTGGTT  
GACTCTCTCCAGCTGACAGGCACAAAGCCGGTTGCCACCCAGTTGACTGGAAGAAGGGAGAGCGTGA  
TGGTAGTTCCACCCTCTCCGAAGAGGAAGCCAAACAATGTTTCCCTAAAGGAGTCTTACCAAAGAGCT  
CCCGTCTGGCAAAAAATACCTCCGTTATACACCCAGCCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001303408
Insert Size:	603 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001303408.1</a></u> , <u><a href="#">NP_001290337.1</a></u>
<b>RefSeq Size:</b>	2489 bp
<b>RefSeq ORF:</b>	603 bp
<b>Locus ID:</b>	11758
<b>Cytogenetics:</b>	1 69.75 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate exon and uses an alternate translation start site, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>