

# Product datasheet for MR202605

## Prdx6 (BC013489) Mouse Tagged ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** Prdx6 (BC013489) Mouse Tagged ORF Clone

Tag: Myc-DDK Prdx6

Synonyms: Prdx6-rs3, Aop2-rs3, GPx, aiPLA2, Prdx5, CP-3, ORF06, 1-cysPrx, mKIAA0106

**Mammalian Cell** Neomycin

Selection:

Symbol:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

>MR202605 ORF sequence **ORF Nucleotide** 

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCCGGAGGGTTGCTTCTCGGGGACGAAGCCCCCAACTTTGAGGCCAATACCACCATCGGCCGCATCC CACCACAGAACTTGGCAGAGCTGCAAAGCTGGCGCCAGAGTTTGCCAAGAGGAATGTTAAGTTGATTGCT CTTTCAATAGACAGTGTTGAGGATCATCTTGCCTGGAGCAAGGACATCAATGCTTACAATGGTGAAACAC CCACGGAAAAGTTGCCATTTCCCATCATTGATAATGGCCAGGGACCTTGCCATCCTTTTGGGCATGTT GGATCCAGTCGAGAAGGACGCTAACAACATGCCTGTGACGGCCCGTGTGGTGTTCATTTTTGGCCCTGAC AAGAAACTGAAGCTGTCTATCCTCTACCCTGCCACCACGGGCAGGAACTTTGATGAGATTCTCAGAGTGG TTGACTCTCCCAGCTGACAGGCACAAAGCCGGTTGCCACCCCAGTTGACTGGAAGAAGGGAGAGAGCGT GATGGTAGTTCCCACCCTCTCCGAAGAGGAAGCCAAACAATGTTTCCCTAAAGGAGTCTTCACCAAAGAG CTCCCGTCTGGCAAAAAATACCTCCGTTATACACCCCAGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202605 protein sequence

Red=Cloning site Green=Tags(s)

MPGGLLLGDEAPNFEANTTIGRIRFHDFLGDSWGILFSHPRDFTPVCTTELGRAAKLAPEFAKRNVKLIA LSIDSVEDHLAWSKDINAYNGETPTEKLPFPIIDDKGRDLAILLGMLDPVEKDANNMPVTARVVFIFGPD KKLKLSILYPATTGRNFDEILRVVDSLQLTGTKPVATPVDWKKGESVMVVPTLSEEEAKQCFPKGVFTKE LPSGKKYLRYTPOP

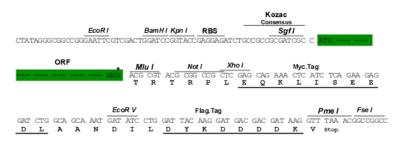
#### TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** BC013489

ORF Size: 672 bp

**OTI Disclaimer:** 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:** <u>BC013489</u>, <u>AAH13489</u>

RefSeq Size: 1440 bp
RefSeq ORF: 674 bp
Locus ID: 11758
Cytogenetics: 1 69.75 cM

MW: 24.8 kDa

**Gene Summary:** This gene encodes a member of the peroxiredoxin family of peroxidases. The encoded

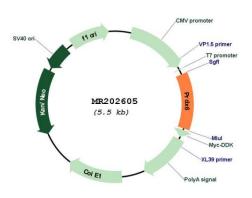
protein is a bifunctional enzyme that has glutathione peroxidase and phospholipase activities. This protein is an antioxidant that reduces peroxidized membrane phospholipids and plays

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 MR202605