

Product datasheet for **MG202605**

Prdx6 (BC013489) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Prdx6 (BC013489) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Prdx6 |
| Synonyms: | Prdx6-rs3, Aop2-rs3, GPx, aiPLA2, Prdx5, CP-3, ORF06, 1-cysPrx, mKIAA0106 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG202605 representing BC013489 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGAGGGTTGCTTCTCGGGGACGAAGCCCCCAACTTTGAGGCCAATACCACCATCGGCCGCATCC
GCTTCCACGATTCCTGGGAGATTCATGGGGCATTCTCTTTCCACCCACGGGACTTTACCCAGTGTG
CACCACAGAACTTGGCAGAGCTGCAAAGCTGGCGCCAGAGTTGCCAAGAGGAATGTTAAGTTGATTGCT
CTTTCAATAGACAGTGTGAGGATCATCTTGCCTGGAGCAAGGACATCAATGCTTACAATGGTGAACAC
CCACGGAAAAGTTGCCATTTCCCATCATTGATGATAAGGGCAGGGACCTTGCCATCCTTTTGGGCATGTT
GGATCCAGTCGAGAAGGACGCTAACAACATGCCTGTGACGGCCCGTGTGGTGTTCATTTTGGCCCTGAC
AAGAACTGAAGCTGTCTATCCTCTACCCTGCCACCACGGGCAGGAACCTTTGATGAGATTCTCAGAGTGG
TTGACTCTCTCCAGCTGACAGGCACAAAGCCGGTTGCCACCCAGTTGACTGGAAGAAGGGAGAGAGCGT
GATGGTAGTTCCACCCCTCTCCGAAGAGGAAGCCAAACAATGTTTCCCTAAAGGAGTCTTACCAAAAGAG
CTCCCGTCTGGCAAAAAATACCTCCGTTATACACCCAGCCT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202605 representing BC013489
 Red=Cloning site Green=Tags(s)

MPGGLLLGDEAPNFEANTTIGRIRFHDFLGDSWGILFSHPRDFTPVCCTELGRAAKLAPEFAKRNVKLIA
 LSIDSVEDHLAWSKDINAYNGETPTEKLPFPIIDDKGRDLAILLGMLDPVEKDANNMPVTARVVFIFGPD
 KKLKLSILYPATTGRNFDEILRVVDSLQLTGTKPVATPVDWKKGESVMVPTLSEEEAKQCFKGVFTKE
 LPSGKKYLRYTPQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC013489

ORF Size: 674 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: [BC013489](#), [AAH13489](#)

RefSeq Size: 1440 bp

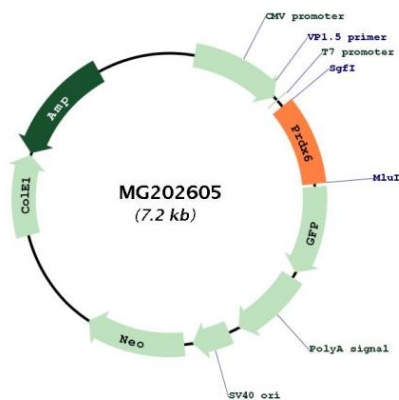
RefSeq ORF: 674 bp

Locus ID: 11758

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 MG202605