

## Product datasheet for **MG203677**

### Prdx4 (NM\_016764) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prdx4 (NM\_016764) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Prdx4  
**Synonyms:** AOE372; Prx-iv; Prx4; TRANK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203677 representing NM\_016764  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCGGGTCCAAGCTGCTGGACGGGACCACGGCGTCCCCTCGCTGGACCCGAAAGCTGGTGTTC  
TCCTGCCCGCGTGTCTGCTGTTCTGTTGCGGACCGAATCTCTGCAAGGCTTGGAGAGTGATGAACGGTT  
CCGGACCCGCGAAAATGAGTGCCACTTCTACGCTGGTGGACAAGGTACCCCGGGAGGGCGTCCCGGTT  
TCAGTCGCGGATCACTCCCTGCATCTAAGCAAAGCCAAGATCTCCAAGCCAGCACCTTATTGGGAAGGAA  
CAGCTGTGATTAACGGAGAATCAAGGAGCTCAAAGTACTGACTGACTATCGTGGGAAATACTGGTTTTTTT  
CTTCTACCCACTGGATTTACCTTTGTGTGTCCAAGTAAATCATCGCTTTTGGGGATCGAATTGAAGAA  
TTCAAATCTATAAATACTGAAGTGGTAGCATGCTCTGTTGACTCTCAGTTTACCCACTTGGCCTGGATTA  
ATACCCCTCGAAGACAAGGAGGACTGGGGCCAATAAGGATTCCACTTCTTTCTGACCTGAACCATCAGAT  
CTCAAAGGACTATGGTGTATACCTTGAAGACTCAGGACATACTCTTAGAGGCCTTTTATTATCGATGAC  
AAAGGAGTCTGAGGCAGATTACTCTGAATGACCTTCTGTGCGGAAGATCAGTGGACGAGACTGCGTT  
TGGTTCAAGCCTCCAGTACACTGACAAGCATGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGA  
AACATAATCCCAGATCCAGCTGGAAAAGTAAAGTATTTTCGACAAGCTAAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203677 representing NM\_016764  
Red=Cloning site Green=Tags(s)

MEARSKLLDGTTASRRWTRKLVLLLPLLLLFLLRTESLQGLSDERFRTRENECHFVAGGQVYPGEASRV  
 SVADHSLHLSKAKISKAPYWEGTAVINGEFKELKLTDIRGKYL VFFFYPLDFTFVCPTEIIAFGDRIIE  
 FKSINTEVVACSVDSQFTHLAWINTPRRQGGLGPIRIPLLSDLNHQISKDYGVYLED SGHTLRGLFIIDD  
 KGVLRQITLNDLPVGRSVDETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGKLYFDKLN

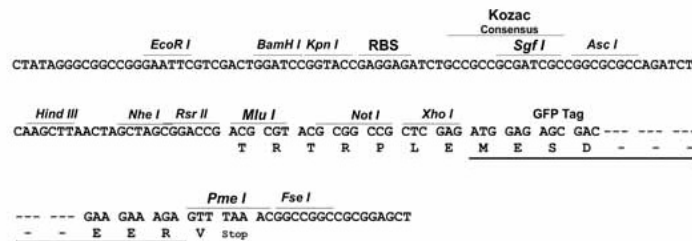
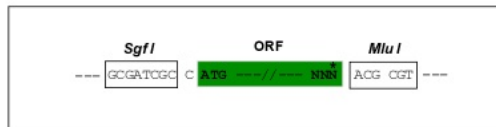
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2491\\_b02.zip](https://cdn.origene.com/chromatograms/ja2491_b02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_016764

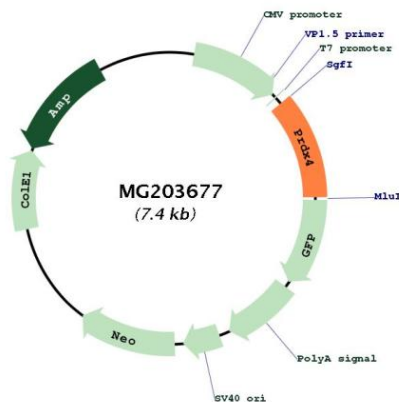
**ORF Size:** 822 bp

**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](mailto: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.

<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>NM_016764.5</u>
<b>RefSeq Size:</b>	975 bp
<b>RefSeq ORF:</b>	825 bp
<b>Locus ID:</b>	53381
<b>UniProt ID:</b>	<u>O08807</u>
<b>Cytogenetics:</b>	X 72.38 cM
<b>Gene Summary:</b>	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 MG203677