

## Product datasheet for **MC200303**

### Prdx2 (BC002034) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prdx2 (BC002034) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Prdx2  
**Synonyms:** TR, TPx, TSA, TDX1, NkefB, PRP, TPx-B, Torin, Band-8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC002034  
CGGACGCGTGGGTTTGGGCCACGCATAAAAGTTCTCCGGCTAGGGCTCTCTCGGTTTTGAGATCTCTT  
TCCTGTCTCTACCCGTGTCTGGACGTCCGTGTGTCCGGCTTTGCTCACGCAGTCATGGCCTCCGGCAAC  
GCGAAATCGGAAAGTCGGCTCCTGACTTCACGGCCACAGCGGTGGTGGATGGTGCCTTCAAGGAAATCA  
AGTTTTCGGACTACAGAGGGAAGTACGTGGTCCTTTTTTCTACCCACTGGACTTCACTTTTGTGGCC  
CACGGAGATCATCGCTTTTAGCGACCATGCTGAGGACTCCGAAAGCTAGGCTGCGAGGTCTGGGAGTG  
TCTGTGGACTCTCAGTTCACCCACCTGGCGTGGATCAATACCCACGAAAGAGGGAGGCTTGGGCCCC  
TGAATATCCCTCTGCTTGTGCTGACGTGACTAAAAGCTTGTCCAGAATTACGGCGTGTGAAAAATGATGA  
GGGCATTGCTTACAGGGTCTCTTTATCATCGATGCCAAGGGTGTCTTCGCCAGATCACAGTCAATGAC  
CTACCTGTGGGACGCTCTGTAGACGAGGCTCTCCGCCTAGTCCAGGCCTTTCAGTATACAGACGAGCATG  
GGGAAGTCTGCCCTGCTGGCTGGAAGCCCGCAGTGACACCATCAAGCCCAATGTGGATGACAGCAAGGA  
ATACTTCTCCAAACACAACACTGAGATGGGTAACATCGGTGAGCCTGAAGCTTGGATTTACCTGTGCCCC  
AACCTGGATGTCCTGTGCTGGCCAGAAAATGCTAGATTTTCTCCACTCTCTGAAGGGGCTGGAGTCTA  
GGCTGAGGCTTTCTATTACCCACCTGGAATCTGGTGAATAGTGATCCTGCCCTGAGCACACCTAGCTGG  
GCCAGGTCTATAGGAAACCAATAAAGTATTAGGGACAGTGTAIAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC002034

**Insert Size:** 597 bp

**OTI Disclaimer:** 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).



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<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>	<a href="#">BC002034</a> , <a href="#">AAH02034</a>
<b>RefSeq Size:</b>	968 bp
<b>RefSeq ORF:</b>	597 bp
<b>Locus ID:</b>	21672
<b>Cytogenetics:</b>	8 41.4 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. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). [UniProtKB/Swiss-Prot Function]