

## Product datasheet for **RR208195**

### Prdx1 (NM\_057114) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prdx1 (NM\_057114) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Prdx1  
**Synonyms:** Hbp23  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208195 representing NM\_057114  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCTTCAGGAAATGCAAAAATTGGGCATCCTGCTCCAGCTTCAAAGCCACGGCTGTTATGCCGGATG  
GACAATCAAAGATATCAGCCTAAGTGATTACAAAGGAAAATATGTTGTATTCTTTTTTACCCTCTTGA  
CTTTACTTTTGTGTGCCACGGAGATCATTGCTTTCAGTGATAGAGCAGAAGAATTAAGAACTCAAC  
TGCCAAGTGATTGGAGCTTCTGTGGATTCTCACTTCTGTGATCTGGCATGGATTAACACACCCAAGAAAC  
AAGGAGGATTGGGACCCATGAACATTCCTTGGTATCAGATCCCAAGCGCACCATTGCTCAGGATTATGG  
AGTCTTAAAAGCTGATGAAGGTATCTTTTCAGGGCCTCTTATTATTGATGATAAAGGTATCCTTCGC  
CAGATAACAATAAATGATCTTCTGTGGCCGCTCTGTGGATGAGATTCTGAGACTAGTCCAGGCCCTTC  
AGTTCAGTACAAACATGGTGAAGTGTGCCAGCTGGCTGGAAACCTGGCAGTGATACCATCAAGCCTGA  
TGCAATAAGAGTAAAGAGTATTTCTCTAAGCAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR208195 representing NM\_057114  
Red=Cloning site Green=Tags(s)

MSSGNAKIGHAPSPFKATAVMPDQGFKDLSLDYKGYVVFYPLDFTFVCPTEIIAFSDRAEEFKLN  
CQVIGASVDSHFCHLAWINTPKKQGLGPMNIPLVSDPKRTIAQDYGVLKADEGISFRGLFIIDDKGILR  
QITINDLPVGRSVDEILRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVNKSKKEYFSKQK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

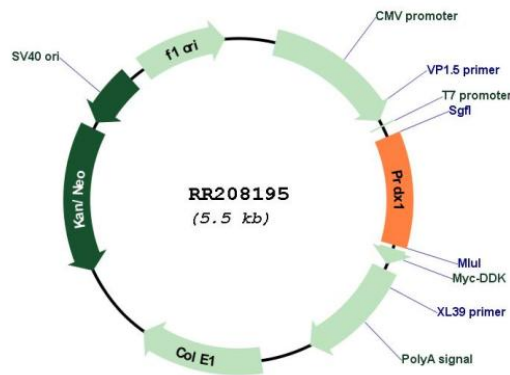
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_057114

ORF Size: 597 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:** [NM\\_057114.1](#), [NP\\_476455.1](#)

**RefSeq Size:** 882 bp

**RefSeq ORF:** 600 bp

**Locus ID:** 117254

**UniProt ID:** [Q63716](#)

**Cytogenetics:** 5q35

**MW:** 22.1 kDa

**Gene Summary:** binds heme; may act as a thiol peroxidase; may play roles in heme metabolism and in response to oxidative stress [RGD, Feb 2006]