

## Product datasheet for **SC329653**

### Peroxiredoxin 1 (PRDX1) (NM\_001202431) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Peroxiredoxin 1 (PRDX1) (NM\_001202431) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PRDX1  
**Synonyms:** MSP23; NKEF-A; NKEFA; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329653 representing NM\_001202431.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

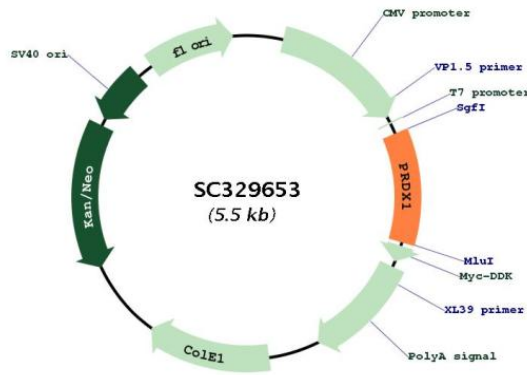
```
ATGTCTTCAGGAAATGCTAAAATTGGGCACCCTGCCCAACTTCAAAGCCACAGCTGTTATGCCAGAT
GGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTACCTCTT
GACTTCACCTTTGTGTGCCCCACGGAGATCATTGCTTTCAGTGATAGGGCAGAAGAATTTAAGAACTC
AACTGCCAAGTGATTGGTGCTTCTGTGGATTCTCACTTCTGTCTATCTAGCATGGGTCAATACACCTAAG
AAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTATCAGACCCGAAGCGCACCATTTGCTCAGGAT
TATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTTTTTATCATTGATGATAAGGGTATT
CTTCGGCAGATCACTGTAATGACCTCCCTGTTGGCCGCTCTGTGGATGAGACTTTGAGACTAGTTCAG
GCCTTCCAGTTCCTGACAAACATGGGGAAGTGTGCCAGCTGGCTGGAACCTGGCAGTGATACCATC
AAGCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGA
```

**Restriction Sites:** Sgfl-Mlul



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Plasmid Map:



ACCN: NM\_001202431

Insert Size: 600 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).

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\\_001202431.1](#)

**RefSeq Size:** 1046 bp

**RefSeq ORF:** 600 bp

**Locus ID:** 5052

**UniProt ID:** [Q06830](#)

**Cytogenetics:** 1p34.1

**MW:** 22.1 kDa

**Gene Summary:** This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011]  
Transcript Variant: This variant (4) contains a different exon for part of its 5' UTR, compared to variant 1. All four variants encode the same protein.