

Product datasheet for **SC209786**

Peroxiredoxin 3 (PRDX3) (NM_014098) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Peroxiredoxin 3 (PRDX3) (NM_014098) Human 3' UTR Clone
Symbol:	Peroxiredoxin 3
Synonyms:	AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014098
Insert Size:	821 bp
Insert Sequence:	<p>>SC209786 3'UTR clone of NM_014098</p> <p>The sequence shown below is from the reference sequence of NM_014098. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGATCGCC
AAAGAGTACTTTCAGAAGGTAAATCAGAGATCACCCATGTGTATCTGCACCTTCTCAACTGAGAGAAG
AACCACAGTTGAAACCTGCTTTTATCATTTTCAAGATGGTTATTTGTAGAAGGCAAGGAACCAATTATG
CTTGATTTCATAAGTATTACTCTAAATGTTTTGTTTTGTAATTCTGGCTAAGACCTTTTAAACATGGT
TAGTTGCTAGTACAAGGAATCCTTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACA
TAATTTGCCTCTATAGAAGGCTATTCTTAGATCATGTCTCAATGGAAACACTCTTCTTTCTTAGCCTTA
CTTGAATCTTGCCTATAATAAAGTAGAGCAACACATTGAAAGCTTCTGATCAACGGTCTGAAATTT
TCATCTTGAATGTCTTTGTATTAATACTGAATTTCTTTTAAGCTAACAAAGATCATAATTTTCAATGAT
TAGCCGTGTAACCTCGCAATGAATGTTTATGTGATTGAAGCAAAATGTGAATCGTATTATTTTAAAAAG
TGGCAGAGTGACTTAACCTGATCATGCATGATCCCTCATCCCTGAAATTGAGTTTATGTAGTCATTTTAC
TTATTTTATTCATTAGCTAACTTTGTCTATGTATTTCTAGATATTGATTAGTGAATCGATTATAAA
GGATATTTATCAAATCCAGGGATTGCATTTTGAATTATAATTATTTTCTTGGCTGAAGTATTCATTGT
AAAAATACAAAAATAACATATTTTAAACATTTGCATTTTACCACCAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_014098.3</u>
Summary:	This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22. [provided by RefSeq, Oct 2014]
Locus ID:	10935
MW:	32.2