

Product datasheet for **SC116095**

Peroxiredoxin 4 (PRDX4) (NM_006406) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peroxiredoxin 4 (PRDX4) (NM_006406) Human Untagged Clone
Tag:	Tag Free
Symbol:	Peroxiredoxin 4
Synonyms:	AOE37-2; AOE372; HEL-S-97n; PRX-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116095 sequence for NM_006406 edited (data generated by NextGen Sequencing)

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ATGGAGGCGCTGCCGCTGCTAGCCGCGACAACCTCCGGACCACGGCCGCCACCGAAGGCTG
CTTCTGCTGCCGCTACTGCTGTTCTGCTGCCGCTGGAGCTGTGCAGGGCTGGGAGACA
GAGGAGAGGCCCGGACTCGCGAAGAGGAGTGCCACTTCTACGCGGGTGGACAAGTGATAC
CCGGGAGAGGCATCCCGGTATCGGTGCGCCGACCACTCCCTGCACCTAAGCAAAGCGAAG
ATTTCCAAGCCAGCGCCCTACTGGGAAGGAACAGCTGTGATCGATGGAGAATTTAAGGAG
CTGAAGTTAACTGATTATCGTGGGAAATACTTGGTTTTCTTCTTCTACCACTTGATTTT
ACATTTGTGTCCAACCTGAAATTATCGCTTTTGGCGACAGACTTGAAGAATTCAGATCT
ATAAATACTGAAGTGGTAGCATGCTCTGTTGATTCACAGTTTACCCATTTGGCCTGGATT
AATACCCCTCGAAGACAAGGAGGACTTGGGCAATAAGGATTCCACTTCTTTTCAGATTTG
ACCCATCAGATCTCAAAGGACTATGGTGTATACCTAGAGGACTCAGGCCCACTCTTAGA
GGTCTCTTCATTATTGATGACAAAGGAATCCTAAGACAAATTAATCTGAATGATCTTCT
GTGGGTAGATCAGTGGATGAGACTACGTTTGGTTCAAGCATTCCAGTACACTGACAAA
CACGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGAAACAATAATCCCAGATCCA
GCTGGAAGCTGAAGTATTTTCGATAAACTGAATTGA

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Clone variation with respect to NM_006406.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006406 unedited
 NGGGTCACAATTGTAACGACTCATATAGGCGGCCGGAATTCGCACGACAAAACGGCGC
 TCGCGCCAAGGACGTGTTTCTGCGCTCGCGTGGTCATGGAGGCGCTGCCGCTGCTAGCCG
 CGACAAC TCCGGACCACGGCCGCCACCGAAGGCTGTTCTGCTGCCGCTACTGCTGTTCC
 TGCTGCCGGCTGGAGCTGTGCAGGGCTGGGAGACAGAGGAGAGGCCCGGACTCGGAAG
 AGGAGTGCCACTTCTACGCGGGTGGACAAGTGTACCCGGGAGAGGCATCCCGGGTATCGG
 TCGCCGACCCTCCCTGCACCTAAGCAAAGCGAAGATTTCCAAGCCAGCGCCCTACTGGG
 AAGGAACAGCTGTGATCGATGGAGAATTTAAGGAGCTGAAGTTAACTGATTATCGTGGA
 AATACTTGGTTTTCTTCTTCTACCCACTTGATTTACATTTGTGTGTCCAAGTAAATTA
 TCGCTTTTGGCGACAGACTTGAAGAATTCAGATCTATAAACTGAAGTGGTAGCATGCT
 CTGTTGATTCACAGTTTACCCATTTGGCCTGNATTAATACCCCTCGAAGACAAGGAGGAC
 TTGNGCCAATAAGGATTCACACTTCTTTCAGATTTGACCCATCAGATCTCANAGGACTATG
 GTGTATACCTAGAGGACTCANGCCACACTTTAGAGGTCTCTTCATTATTGATGACANAG
 GAATCCTAAGACAATACTCTGAATGATCTTCTGTGGGTAGATCAGTGGATGAGACAC
 TACGTTTGGTTCAAGCATTCCAGTACACTGACCAACACGGAGAAGTCTGCCCTGTGGCT
 GGAAACCTGNTAGNNTGAACATAATCCCAGATCCAGCTGGAAAGCTGAAGTANTTNCGAT
 AACTGAATTGAGAAAACCTCNCTCAAGTATGATGCCTNGAAGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006406 unedited
 GGAGCGCTACGAGGTACCTCGCCGCCCTCAATGATCGTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTGGGAAAGGAAACCCGGAACCTTTATTGAGAACTTTCAAACCTCA
 TAACCTGAAAAAATTTCTCAATTCAGTTTATCGAAATACTTCAGCTTTCCAGCTGGAT
 CTGGGATTATTGGTTCACTACCAGTTTTCCAGCCCGCAGGGCAAACCTTCTCCCTGTTTGT
 CAATGGACTGGAATGCCTGAACCAACGTAAGTGGCTCATCCACTGGTCTACCCACAGGAA
 GATCATTAGAGTAATTTGTCTTAAGATTCCTTGGCATCAATAATGAAAAAACCCCTAA
 AAATGGGGCCCGAGTCCCTAGGGATACCCATAATCCTTTGAGATCCGATGGGGCAAAT
 CTGAAAGAAGTGGAAATCCCTATTGGCCCAAGTCTCCTTGGCTTCGAGGGGGGATTAATCC
 CGGCCCAATGGGGAAACCGGGAATCAACAGAACATGCTACCACTTCAGTATTTATAGATC
 TGAATCTTCAAGTCTGGCGCCCAAGCGATAATTTAGTTGGACACACAATGTGAAAT
 CAAGTGGGTAGAAAAAGAAAACCAAGTATTTCCACGATAATCAGTTAACTTCAGCTCCT
 TAAATCTCCATCGATCACAGCTGTTCCCTCCCAATAAGGCGCTGGCTTGAAAATCTTCC
 CTTTGCTTAAGTGCAGGAAGTGTTCGGCGACCGATACCCGGGGAGCCTCTCCCGGTACA
 CTTGTCCACCGCGTAAATGGCCCTCCTCTCGCGAGTTCGGGGCCCTCCTCTGTCTCC
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_006406

Insert Size:

900 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_006406.1](#), [NP_006397.1](#)

RefSeq Size: 921 bp

RefSeq ORF: 816 bp

Locus ID: 10549

UniProt ID: [Q13162](#)

Cytogenetics: Xp22.11

Domains: AhpC-TSA

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB. [provided by RefSeq, Jul 2008]