

Product datasheet for **SC124388**

Peroxiredoxin 5 (PRDX5) (NM_181652) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peroxiredoxin 5 (PRDX5) (NM_181652) Human Untagged Clone
Tag:	Tag Free
Symbol:	Peroxiredoxin 5
Synonyms:	ACR1; AOEB166; B166; HEL-S-55; PLP; PMP20; PRDX6; prx-V; PRXV; SBB110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181652, the custom clone sequence may differ by one or more nucleotides

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ATGGGACTAGCTGGCGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGCGCGGGTCT
AGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGGGCGTCTGGCGGGTCCGCAGTTTCAG
CAGAGCCGCTGCAGCCATGGCCCAATCAAGGTTCTGGCTCCTGGCTGATCCCACTGGGCGCTTTGGGAAG
GAGACAGACTTACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGTTCTCCA
TGGTGGTACAGGATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCTCACCTGCAGCCT
GGCACCAATATCATCTCACAGCTCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181652 unedited TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGCGGTGGCACCA GCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACTAGTGGCGTGTGCGCC CTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGGCCGGGTCAGTCTGCGGCAGCG GCAGCAAGACGGTGCAGTGAAGGAGAGTGGCGTCTGGCGGGTCCGAGTTTCAGCAGA GCCGCTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCCATCCCAGCAGTGGAGGTGTT GAAGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGTGTG CTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTT GTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTT AATGATGCCTTTGTGACTGGCGAGTGGGGCCGAGCCACAAGGCGGAAGGCAAGGTTTCGG CTCCTGGTGATCCCAGTGGGGCCTTTGGGAAGGAGACAGACTTATTACTAGATGATTTCG CTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGTTTCCATGGTGGTACAGGATGGC ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCC AATATCATCTCACAGCTTTGAGCCCTNGGCCAGATTACTTNCTNCAACCCTNCCTATCTC ACTGCCAGCCTGTGCTGGGGCCCTGCATGGNAATGTNGCCANATTCTGCNATAACACT TGTGGTTTGCGGCCAAAAAANNNNNNAAAAANNNNNNANAAAAANNNNNAAAAA AAAAAAACCCCAAAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_181652
Insert Size:	4700 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:	<ol style="list-style-type: none"> 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_181652.1 , NP_857635.1
RefSeq Size:	692 bp
RefSeq ORF:	378 bp
Locus ID:	25824
UniProt ID:	P30044
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017]

Transcript Variant: This variant (3) lacks two alternate in-frame exons compared to variant 1. The resulting isoform (c) is shorter than isoform L.