

Product datasheet for **SC110342**

Peroxiredoxin 5 (PRDX5) (NM_181651) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peroxiredoxin 5 (PRDX5) (NM_181651) 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: >OriGene ORF sequence for NM_181651 edited
ATGGGACTAGCTGGCGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGG
GCCGGCGGTCACTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGGCGTCT
GGCGGGTCCGCAAGTTTACGAGAGCCGCTGCAGCCATGGCCCCAATCAAGGTGGGAGAT
GCCATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAG
CTGTTCAAGGGCAAGAAGGGTGTGCTGTTTGGAGTTCCTGGGCCTTCACCCCTGGATGT
TCCAAGACACACCTGCCAGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTC
CAGGTGGTGGCCTGTCTGAGTGTAAATGATGCCTTTGTGACTGGCGAGTGGGGCCGAGCC
CACAAGGGCGAAGGCAAGGTTCCGCTCCTGGCTGATCCCCTGGGCCTTTGGGAAGGAG
ACAGACTTATTACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGG
TTCTCCATGGTGGTACAGGATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACA
GGCCTCACCTGCAGCCTGGCACCCAATATCATCTCACAGCTCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_181651 unedited TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCTGCTGCGGTG GCACCAGCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACTAGCTGGCGTG TGCGCCCTGAGACGCTCAGCGGGCTATACTCGTCGGTGGGGCCGGCGGTCACTGCTGCG GCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGGGCGTCTGGCGGGTCCGCAGTTTC AGCAGAGCCGCTGCAGCCATGGCCCAATCAAGGTGGGAGATGCCATCCCAGCAGTGGAG GTGTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGTGTTCAGGGCAAGAAG GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCAACCCTGGATGTTCCAAGACACACCTGCCA GGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTG AGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGGCCGAGCCACAAGGCGGAAGGCAAG GTTCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACAGACTTATTACTAGAT GATTTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG GATGGCATAAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTG GCACCAATATCATCTCACAGCTCTGAGGCCCTGGCCAGATTACTTCTNCACCCCTCC CTATCTACCTGCCAGCCCTGTGCTGGGGCCTGCATNGGNAANTGTGGCCAGATTTCTG CATAACACTTGGGGGTTGGCGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_181651 unedited CAACCACAGTGTATTATGAGAATCTGGCCAACATTCCAATTGCAGGGCGCCAGCACAG GGCTGGGCAGGTGAGATAGGGAGGGTGGAGGAAGTAATCTGGCCAGGGCCTCAGAGCT GTGAGATGATATTGGGTGCCAGGCTGCAGGTGAGGCTGTGCCATCTGGTTCCACATTCA GGGCCTTCACTATGCCATCCTGTACCACCATGGAGAACCCTTTGAGACGTCGATTCCCAA AGATGGACACCAGCGAATCATCTAGTAATAAGTCTGTCTCCTTCCAAAGGCCCCAGTGG GATCAGCCAGGAGCCGAACCTTGCTTCCGCCTTGTGGGCTCGGCCCACTCGCCAGTCA CAAAGGCATCATTAACTCAGACAGGCCACCACCTGGACTCCCTTGGCCTTCAGAGCCT CAGCCTGCTCCACAAACCTGGCAGGTGTGTCTTGAACATCCAGGGGTGAAGGCCCCAG GAACTCCAAACAGCACACCCTTCTTGGCCTTGAACAGCTCTGCCAGGTTACCTTGTTC CTGGCTCCCTTCAAACCTCCACTGCTGGGATGGCATCTCCACCTTGATTGNGGCCA TGGCTGCAGCGGCTCTGCTGAACTGCGGACCCCGCCAGACGCCCACTCTCCTTCACTGC ACCGCTTGTCTGCCGCTGCCGACAGCTGACCGCCGGCCCAACCGACGAGTATATAGCCCG CTGAGCGTCTCAGGGCGCACACGCCAGCTAGTCCATACCCGNCACCGNCACTCCAC TNCGNCTCCTGGCTGGTGCCACGACAGGCCCTCGTGCCGAATTCGCGGCCGNCCTATA GTGAGTGTATTACAAATNCTGACGNTCACTAAACGAGCTCTGCTTATATAGACTNCCA CCGTACACGCTACCGCAATTTGCGTAAACGGGGCGGGNTATACGACATTTTGGAAAGT CCCGTGGATTTGGTGGCCAAACAACCTCCCTA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_181651
Insert Size:	950 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:	<u>NM_181651.1, NP_857634.1</u>
RefSeq Size:	827 bp
RefSeq ORF:	513 bp
Locus ID:	25824
UniProt ID:	<u>P30044</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) is shorter than isoform L.</p>