

Product datasheet for **SC109541**

Peroxiredoxin 1 (PRDX1) (NM_181697) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Peroxiredoxin 1 (PRDX1) (NM_181697) Human Untagged Clone
Tag: Tag Free
Symbol: PRDX1
Synonyms: MSP23; NKEF-A; NKEFA; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene ORF sequence for NM_181697 edited

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ATGTCTTCAGGAAATGCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTT
ATGCCAGATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGAAAATATGTTGTG
TTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAGATCATTGCTTTCAGT
GATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATG
AACATTCCTTTGGTATCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAG
GCTGATGAAGGCATCTCGTTTCAGGGGCCCTTTTATCATTGATGATAAGGGTATTCTCGG
CAGATCACTGTAATGACCTCCCTGTTGGCCGCTCTGTGGATGAGACTTTGAGACTAGTT
CAGGCCTTCCAGTTCAGTCACTGACAAACATGGGGAAGTGTGCCAGCTGGCTGGAAACCTGGC
AGTGATACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_181697 unedited NNGGGTCAGATTTTGTATACGACTCACTATAGGCGCCGCGATTCCGGCACGAGGGTGGTT AGTTTCTGCGACTTGTGTGGGACTGCTGATAGGAAGATGTCTTCAGGAAATGCTAAAAT TGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTAAAGA TATCAGCTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTACCTCTTGACTT CACCTTTGTGTGCCCCACGGAGATCATTGCTTTCAGTGATAGGGCAGAAGAATTTAAGAA ACTCAACTGCCAAGTATTGGTCTTCTGTGGATTCTCACTTCTGTCATCTAGCATGGGT CAATACACCTAAGAAACAAGGAGACTGGGACCCATGAACATTCTTTGGTATCAGACCC GAAGCGCACCATTTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAG GGGCTTTTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAATGACCTCCC TGTTGGCCGCTCTGTGGATGAGACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAA ACATGNGGGAAGTGTGCCAGCTGGCTGAAAACCTGGCAGTGATACCATCAAGCCTGATG TCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTTAGTGCCA NGCTGCGGTGGGAGCCATGAGAACAAAACCTCTCTGTATTTTTTTTTTCCATTTAGTAA ACACAAGACTTCAGATTCAGCCGAATTGTTGGTGTCTTACAAGGCANGCCTTTNCTACAGG GGGNTGAGAGACCAGCCTTTTCTCTTTGNTANGAAATGCCTGANTTGNCGTTGTTGGGC AGCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_181697
Insert Size:	1000 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_181697.1 , NP_859048.1
RefSeq Size:	1042 bp

RefSeq ORF: 600 bp

Locus ID: 5052

UniProt ID: [Q06830](#)

Cytogenetics: 1p34.1

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 (3) uses an alternate splice site in the 5' UTR, compared to variant 1. All four variants encode the same protein.