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Product datasheet for SC118560

Peroxiredoxin 1 (PRDX1) (NM_002574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peroxiredoxin 1 (PRDX1) (NM_002574) Human Untagged Clone
Tag:	Tag Free
Symbol:	Peroxiredoxin 1
Synonyms:	MSP23; NKEF-A; NKEFA; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118560 sequence for NM_002574 edited (data generated by NextGen Sequencing)

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ATGTCTTCAGGAAATGCTAAAATTGGGCACCCTGCCCCCAACTTCAAAGCCACAGCTGTT
ATGCCAGATGGTCAGTTTAAAGATATCAGCCTGTCTGACTACAAAGGAAAATATGTTGTG
TTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAGATCATTGCTTTCAGT
GATAGGGCAGAAGAATTTAAGAAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCATCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATG
AACATTCCTTTGGTATCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAG
GCTGATGAAGGCATCTCGTTCAGGGGCCTTTTTATCATTGATGATAAGGGTATTCTTCGG
CAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAGACTTTGAGACTAGTT
CAGGCCTTCCAGTTCACTGACAAACATGGGGAAGTGTGCCCAGCTGGCTGGAAACCTGGC
AGTGATACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGA

Clone variation with respect to NM_002574.3
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View online »

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002574 unedited
NNGGTTCGAATATTTGTATACGACTCACTTATAGGGCGGCCGCGATTCGGCACGAGGGGT
GGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAATGCTA
AAATTGGGCACCCTGCCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTA
AAGATATCAGCCTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTG
ACTTCACCTTTGTGTGCCCCACGGAGATCATTGCTTTCAGTGATAGGGCAGAAGAATTTA
AGAAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCTCACTTCTGTCATCTAGCAT
GGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTATCAG
ACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGT
TCAGGGGCCTTTTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACC
TCCCTGTTGGCCGCTCTGTGGATGAGACTTTGAGACTAGTTCAGGCCTTCCAGTTCACTG
ACAAACATGGNGGAAGTGTGCCCAGCTGGCTGGAAACCTGGCAGTGATACCATCAAGCCT
GATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTTAGT
GCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTCCATTA
GTAAAACACAAGACTTCAGATTCAGCCGAATTGGTGGTGTCTTACAGGNCAGGCCTTNTC
TACAGGNGNTGGAGAGACCAGCCTTCCTTCCTTTGNNTAGATGGCCTGAGTNGGCGGTGT
GGCAGCTACTGGNNTGNATGATGTATA
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Restriction Sites: NotI-NotI

ACCN: NM_002574

Insert Size: 1050 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_002574.2, NP_002565.1

RefSeq Size: 1262 bp

RefSeq ORF: 600 bp

Locus ID: 5052

UniProt ID: Q06830

Cytogenetics: 1p34.1

Domains: AhpC-TSA

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 (1) represents the longest transcript. All four variants encode the same protein.