

Product datasheet for **SC203812**

Peroxiredoxin 2 (PRDX2) (NM_005809) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Peroxiredoxin 2 (PRDX2) (NM_005809) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PRDX2
Synonyms:	HEL-S-2a; NKEF-B; NKEFB; PRP; PRX2; PRXII; PTX1; TDPX1; TPX1; TSA
ACCN:	NM_005809
Insert Size:	288 bp
Insert Sequence:	>SC203812 3'UTR clone of NM_005809 The sequence shown below is from the reference sequence of NM_005809. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AGCAAGGAATATTTCTCCAAACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCTGCCTAGGT GCCTGTGCTGGGTGTCCACCTGTGCCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTG CCCTCCAAACTCCACAGTATGGGACCCTGGAGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAA GCTGAATAGTGACGCCCTCCCCAAGCCACCCAGCCGCACACAGGCCTAGAGGTAACCAATAAAGTAT TAGGAAAGGTG ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_005809.6</u>



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Summary:

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]

Locus ID:

7001

MW:

10.4