

## Product datasheet for **SC210760**

### Glutathione Peroxidase 3 (GPX3) (NM\_002084) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** Glutathione Peroxidase 3 (GPX3) (NM\_002084) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** GPX3  
**Synonyms:** GPx-P; GSHPx-3; GSHPx-P  
**ACCN:** NM\_002084  
**Insert Size:** 888 bp  
**Insert Sequence:** >SC210760 3'UTR clone of NM\_002084  
 The sequence shown below is from the reference sequence of NM\_002084. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAGGCAGCCCTGGGGTCAAGAGGAAGTAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAG
GGACTTTGTTTCAGGAAGAAATCCGTGTCTCCAACCACACTATCTACCCATCACAGACCCCTTTCCTATC
ACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAGTTCTGTGTAAGCCAGGCATGTGGGTGTGGG
TGCATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATTGTGTGTGTGTCATGGGTGTACAGCC
ACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCTGCAGCTGTGTAGTGTGGAC
AGTGACAACCCCTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACTTACACCTAAACCCAAAGGA
AAAACCAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACTCAACCTTGGGGCCAGCATCTCCCACT
GCCTCAAATATTAGTAAGTACTGACTGACGTCCCAGAAAGTTTCTGGGTCTACCACACTCCCAACCC
CCACTCCTACTTCTGAAGGGCCCTCCCAAGGCTACATCCCACCCACAGTTCTCCCTGAGAGAGATC
AACCTCCCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTC
TTCATGAGGGAGGGGCCAAAGCCCTTGTGGGCGGACCTCCCCTGAGCCTGTCTGAGGGGCCAGCCCTT
AGTGCAATTCAGGCTAAGGCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACC
CTCACTGGTCCACTGGCTTGAGACTCACCCGTCTGCCAGTAAAAGCCTTTCTGCAGCA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-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).



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<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_002084.5</a>
<b>Summary:</b>	The protein encoded by this gene belongs to the glutathione peroxidase family, members of which catalyze the reduction of organic hydroperoxides and hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) by glutathione, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme is secreted, and is abundantly found in plasma. Downregulation of expression of this gene by promoter hypermethylation has been observed in a wide spectrum of human malignancies, including thyroid cancer, hepatocellular carcinoma and chronic myeloid leukemia. This isozyme is also a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2016]
<b>Locus ID:</b>	2878
<b>MW:</b>	31