

## Product datasheet for **SC203240**

### Thyroid Peroxidase (TPO) (NM\_000547) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** Thyroid Peroxidase (TPO) (NM\_000547) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** TPO  
**Synonyms:** MSA; TDH2A; TPX  
**ACCN:** NM\_000547  
**Insert Size:** 1229 bp  
**Insert Sequence:** >SC203240 3'UTR clone of NM\_000547  
The sequence shown below is from the reference sequence of NM\_000547. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GATACTCACAGGCTGCCGAGAGCCCTCTGAGGGCAAAGTGGCAGGACACTGCAGAACAGCTTCATGTTC
CCAAAATCACCGTACGACTCTTTTCCAAACACAGGCAAATCCGAAATCAGCAGGACGACTGTTTTCCCA
ACACGGGTAAATCTAGTACCATGTCGTAGTTACTCTCAGGCATGGATGAATAAATGTTATAGCTGCATT
TGCTGGCCTTTTCTTGTAAACATTGCCTGATTTGTTCTTCTGGGGCTTTGCCATTAATAATGTATTTA
CAGATTACACATCTTTATTTGTGAACCCTGGAACACCACTCTTGCAATCCTCCTGTCTCCACCTTCT
GGCATCTCTGATGCCGTGCTCGTCTGCACTCTGCCCGGGCGGTCCCTCCAGCACTGGTTTTTCCACACC
CCCTGCCCATCACAGGTGTCCACAGGGCTACATCTGGCTTCCCTCTTCTCCTGGGAAGAGCACTCCT
GGCTTCTGCAGGGCCGGTGGGAGGAGAAAGTATTCTGAGGGAGAGGCTGGAGCCTTAAGGACCAAC
AAGGCAAAGTGACTTGTCTCATCTCCAGAGATCACCAACACATGAGCCTCAGACCCAGGCTTCTGC
CTCCAGCAGCCGCTGCCGCACACTGCTTACTCCTCTTATACCCTCACTCACGGGGAACACAGCC
CAGTGATCCCGGAGGAAACTCACTCCCTCCCTGACTCAACAAGGCACTCGGGGGCACCGTTAGCCAC
GCGACCCTGTAAAGCTGCCGTCCCTATTTCACATGTGAAGCAGCTGAATTCAGAGTGCTGGGTCCAG
CCCAGGCAGCCCTCAGCCTCACGCAAGGCAATAGTTAGGAGTCCCTCGGCATTGAAAGCAAACCTCAGAC
ACATCTGACCTGGAGTTCTACCTGCACTAAGAGAAGAGAGTGGTAACTAATTCATGGATAAAACAGACC
ATCGAGGCAGCACTGAATGATCTCACCCACGAATGACAACAGTGGCACAGGAGGGCTATGAACATTTTG
CTTCAGGATGTTTTATTTTCGCTACTGTTATGTAGAGAAAGCATGGTTTGCTTTTTATAACTTTTGTG
ACCCAAAAATACCAGACTGTTGTTTTCCCTAGGTGCCAGGCCATCCTGTTCTGTGTGTTCCCAAACCT
TAGTTTTGTTTCATGTAAACTCATGATTTTATAATTAATAAATAAATAAATAAATAAATAAATAAATAA
ACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
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**Restriction Sites:** SgfI-MluI



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<b>OTI Disclaimer:</b>	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).
<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_000547.6</a>
<b>Summary:</b>	This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined. [provided by RefSeq, May 2011]
<b>Locus ID:</b>	7173
<b>MW:</b>	45.8