

## Product datasheet for **SC203237**

### Thyroid Peroxidase (TPO) (NM\_175721) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Thyroid Peroxidase (TPO) (NM_175721) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	TPO
Synonyms:	MSA; TDH2A; TPX
ACCN:	NM_175721
Insert Size:	289 bp
Insert Sequence:	>SC203237 3'UTR clone of NM_175721

The sequence shown below is from the reference sequence of NM\_175721. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GATACTCACAGGCTGCCGAGAGCCCTCTGAGGGCAAAGTGGCAGGACACTGCAGAACAGCTTCATGTTC
CCAAAATCACCGTACGACTCTTTTCCAAACACAGGCAAATCCGAAATCAGCAGGACGACTGTTTTCCCA
ACACGGGTAAATCTAGTACCATGTCGTAGTTACTCTCAGGCATGGATGAATAAATGTTATAGCTGCATT
TGTCTGGCCTTTTCTTGTAACATTGCCTGATTTGTTCTTCTGGGGCTTGCCATTAATAATGTATTTA
CAGATTAATAAAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
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><a href="#">NM_175721.3</a></u>



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**Summary:**

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]

**Locus ID:** 7173

**MW:** 11.1