

Product datasheet for **MC222583**

Tpo (NM_009417) Mouse Untagged Clone

Product data:

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|--------------------|--------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Tpo (NM_009417) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tpo |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC222583 representing NM_009417
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAACACTTGGAGCTATGGCAATAATGCTGGTGGTTATGGAACTGTAAATTTCTCTCTTTTATCC
 TGAGAAGCAGAGACATCTTGTGTGGGAAGACCATGAAAGTCCCATTGTTATCAGTGCCTGGAAACGAGCCA
 GCTCATGGTGGACCATGCAGTCTACAACACCATGAAAAGAAACCTCAAGAAAAGGGAAGTCTTTCTCCA
 GCCCAGCTTCTCTTTTCTTAAGTGCAGTCCACCAGTGGGGCTATTTCCGAGCAGCAGAGATTA
 TGGAAACATCAATAAAGTCATGAAACGTGAACAGTACAGTTCTCCACGGATGCCTTATCAGCAGACAT
 TCTGGGCACAATTGCCAACCTGTCAGGATGCTTGCCTTTCATGCTGCCACCAAGATGCTCTGACACCTGC
 CTGGCAAATAAGTACCGGCCATCACAGGGCGTGAACAATAGAGATCACCCAGATGGGGAGCCTCCA
 ACACAGCCCTAGCAAGATGGCTGCCTCCTGTCTATGAAGATGGCTTCAGTCAGCCAAAGGCTGAAACCC
 TAATTTCTTATACCACGGCTTCCACTGCCCCCGTACGGGAAGTGACAAGGCACCTCATTCAAGTTTCC
 AATGAGGCTGTGACCGAAGATGACCAGTACTCTGATTTTCTGCCGGTGTGGGGACAGTACATCGATCATG
 ACATTGCTCTCACACCACAGAGCACTAGCACAGAGCCTTCTGGGGAGGTGTCGACTGCCAGCTGACCTG
 TGAGAACCAAAATCCTTGCTTCCCATACAGCTTCCCTCAAACCTCCTCAGGGACCACTGCATGCCTGCCT
 TTCTACCGCTCCTCCGCCGCTTGTGGCACTGGGGACCAAGGTGCTCTCTTTGGCAACCTGTCTGCAGCCA
 ATCCGAGGCAGCAGATGAATGGCTTGACCTCCTTCTTGATGCTTCCACTGTGTACGGCAGCTCCCTGG
 CGTTGAGAAGCAGCTGCGCAACTGGAGCAGCTCGGCAGGACTGCTGCGTGTCAACACTCTCCACCTAGAT
 GCTGGCCGTGCCTACCTGCCCTTCGCAACAGCCGCTGCGCTCCAGAGCCTGGTACCCACGCACCAACC
 GCACGCCCTGCTTCTGGCTGGAGACGGTCCGCCAGTGAAGTCCCTGCCCTGGCAGCGTACACACCTT
 GTGGCTGCGCGAGCACAACCGCCTGGCTTCCGCCCTTCAAGGCCATTAACAAGCACTGGAGCGCAACACT
 GCCTACCAGGAGCGCGCAAGGTGGTAGGGCACTGCACCAGATCATCACCATGAGGGATTATATCCCCA
 AAATCCTGGGCTCTGATGCCTTCCAGCAGTATGTGGGCCCTATGAAGGCTACAACCCCACTGTGAACCC
 TACTGTGTCCAACATCTTCTCCACTGCTGCCTTTCGCTTGGCCATGCCACAGTCCATCCACTGGTGA
 CGGCTAAACACTGACTTCCAGGAGCACACAGAGCTCCCCAGGTTGCAGCTGCGTGTGTCTTCTTCCAGAC
 CCTGGAGGCTTATCCAGGAAGGTGGTTGGATCCGATAGTGAGAGGCTCCTGGCAGAGCAGCCAAAGCT
 GCAAGTCAAGGGCAGCTGATGAATGAGGAGCTGACCGAGAGGCTCTTCTGTGTCTAACCTGGGCACC
 TTGGATCTGGCATCACTGAACTTGCAGAGGGCCGGGATCATGGCTTACCAGACTACAATGAATGGAGAG
 AGTTCTGTGGCTGTACGCCTGGAGACACCAGCTGAGCTGAACAAGGCCATTGCCAACAGAAGCATGGT
 CAACAAGATAATGGACTTATACAAGCATGCTGACAACATTGACGCTCTGGTTGGGAGGCTTGGCTGAAAAG
 TTCTTGCCGGGGCCCGCACTGGTCTCTGTTGCATGTATCATTGGGAAGCAGATGAAGGCTCTGAGGG
 ATGGGGACAGGTTTTGGTGGGAGAACCAATGTCTTACAGACGCTCAGAGGCAGGAAGTAGAAAAGCA
 TTCCTACCTCGGGTCACTGTGACAACACTGGACTCACAGAGTACCTGTGGATGCCTCCGTATTGGA
 AAGTTCCCCAAGACTTTGAATCCTGTGAGGACATCCCGAGCATGGACCTGAACTATGGAGGGAGACCT
 TCCACAAGATGACAAGTGTGTCTTCCAGAGGAGGTGGACAATGGAACTTTGTGCACTGTGAAGAGTC
 TGGGAAGCTGGTGTGTATACTCCTGTTCCATGGATACAAGCTGCAGGGCCAGGAGCAGGTACATGT
 ACCCAGAAGGGATGGGACTCCGAACCTCCTGTCTGTAAGATGTTAATGAGTGTGACAGATCTGACACACC
 CACCTTGCCACCCTCTGCACAGTGCAAGAACCAAGGGAAGCTTCCAGTGTGTGTGCACAGACCCCTA
 TGTGCTAGGTGAGGATGAGAAGACCTGCATAGATTCTGGCAGGCTACCTCGGGCATCCTGGGTCTCCATT
 GCACTGGGTGCACTTCTCATTGGTGGTTTGGCCAGTCTCACCTGGATAGTAATTTGCAGGTGGACACATG
 CTGATAAGAAAGCCATTGCCGATCACAGAGAGAGTGACCACCCAGTCAGGATGCAGAAAGAGTCAGGG
 GAGGGGGATTTACCACACAAGGCCGAGCTCAAGACTGGACAGGAACCTGCAAGTGGATCCAGGGTC
 CTCCTGTGCGA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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|-------------------------------|---|
| ACCN: | NM_009417 |
| Insert Size: | 2745 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: | <ol style="list-style-type: none">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_009417.3 , NP_033443.1 |
| RefSeq Size: | 3306 bp |
| RefSeq ORF: | 2745 bp |
| Locus ID: | 22018 |
| UniProt ID: | P35419 |
| Cytogenetics: | 12 13.0 cM |
| Gene Summary: | This gene encodes a membrane-bound glycoprotein. The encoded enzyme plays a central role in thyroid gland function. The enzyme 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. Mice with homozygous missense mutations in this gene exhibit hypothyroid dwarfism and hearing impairment. [provided by RefSeq, Sep 2015] |