**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC227226

## Thpo (NM_001289894) Mouse Untagged Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Thpo (NM_001289894) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Thpo |
| **Synonyms:** | Mgdf; Ml; Mp; Mpllg; T; Tpo |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC227226 representing NM_001289894
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTGACTGATTTGCTCCTGGCGGCCATGCTTCTTGCAGTGGCAAGACTAACTCTGTCCAGCCCCG
TAGCTCCTGCCTGTGACCCCAGACTCCTAAATAAACTGCTGCGTGACTCCCACCTCCTTCACAGCCGACT
GAGTCAGTGTCCCGACGTCGACCCTTTGTCTATCCCTGTTCTGCTGCCTGCTGTGGACTTTAGCCTGGGA
GAATGGAAAACCCAGACGGAACAGAGCAAGGCACAGGACATTCTAGGGGCAGTGTCCCTTCTACTGGAGG
GAGTGATGGCAGCACGAGGACAGTTGGAACCCTCCTGCCTCTCATCCCTCCTGGGACAGCTTTCTGGGCA
GGTTCGCCTCCTCTTGGGGGCCCTGCAGGGCCTCCTAGGAACCCAGGGCAGGACCACAGCTCACAAGGAC
CCCAATGCCCTCTTCTTGAGCTTGCAACAACTGCTTCGGGGAAAGGTGCGCTTCCTGCTTCTGGTAGAAG
GTCCCACCCTCTGTGTCAGACGGACCCTGCCAACCACAGCTGTCCCAAGCAGTACTTCTCAACTCCTCAC
ACTAAACAAGTTCCCAAACAGGACTTCTGGATTGTTGGAGACGAACTTCAGTGTCACAGCCAGAACTGCT
GGCCCTGGACTTCTGAGCAGGCTTCAGGGATTCAGAGTCAAGATTACTCCTGGTCAGCTAAATCAAACCT
CCAGGTCCCCAGTCCAAATCTCTGGATACCTGAACAGGACACACGGACCTGTGAATGGAACTCATGGGCT
CTTTGCTGGAACCTCACTTCAGACCCTGGAAGCCTCAGACATCTCGCCCGGAGCTTTCAACAAAGGCTCC
CTGGCATTCAACCTCCAGGGTGGACTTCCTCCTTCTCCAAGCCTTGCTCCTGATGGACACACACCCTTCC
CTCCTTCACCTGCCTTGCCCACCACCCATGGATCTCCACCCCAGCTCCACCCCCTGTTTCCTGACCCTTC
CACCACCATGCCTAACTCTACCGCCCCTCATCCAGTCACAATGTACCCTCATCCCAGGAATTTGTCTCAG
GAAACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

**Restriction Sites:** SgfI-MluI

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| | |
|---|---|
| **ACCN:** | NM_001289894 |
| **Insert Size:** | 1059 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). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001289894.1, NP_001276823.1 |
| **RefSeq Size:** | 2250 bp |
| **RefSeq ORF:** | 1059 bp |
| **Locus ID:** | 21832 |
| **UniProt ID:** | P40226 |
| **Cytogenetics:** | 16 12.51 cM |
| **Gene Summary:** | This gene encodes a humoral growth factor necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. The encoded protein is a ligand for the product of the myeloproliferative leukemia virus oncogene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]<br>Transcript Variant: This variant (3) has an alternate splice site in the 3' coding region, compared to variant 2. The resulting isoform (2, also known as Tpo2) lacks an internal 4aa peptide, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. |

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