

## Product datasheet for MC226472

### Thpo (NM\_001289896) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thpo (NM_001289896) 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:	>MC226472 representing NM_001289896 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGCTGACTGATTTGCTCCTGGCGGCCATGCTTCTTGCACTGGCAAGACTAACTCTGTCCAGCCCCG  
TAGCTCCTGCCTGTGACCCAGACTCCTAAATAAACTGCTGCGTACTCCACCTCCTTCACAGCCGACT  
GAGTCAGTGTCCGACGTCGACCCTTTGTCTATCCCTGTTCTGCTGCCTGCTGTGGACTTTAGCCTGGGA  
GAATGGAAAACCCAGACGGAACAGAGCAAGGCACAGGACATTCTAGGGGCACTGTCCCTTCTACTGGAGG  
GAGTGATGGCAGCACGAGGACAGTTGGAACCTCCTGCCTCTCATCCCTCCTGGGACAGCTTTCTGGGCA  
GGTTTCGCCTCCTCTTGGGGGCCCTGCAGGGCCTCCTAGGAACCCAGGACTTCTGGATTGTTGGAGACGAA  
CTTCAGTGTACAGCCAGAACTGCTGGCCCTGGACTTCTGAGCAGGCTTCAGGGATTGAGAGTCAAGATT  
ACTCCTGGTCAGCTAAATCAAACCTCCAGGTCCCCAGTCCAAATCTCTGGATACCTGAACAGGACACAGC  
GACCTGTGAATGGAACCTCATGGGCTCTTTGCTGGAACCTCACTTCAGACCCTGGAAGCCTCAGACATCTC  
GCCCGGAGCTTTCAACAAAGGCTCCCTGGCATTCAACCTCCAGGGTGGACTTCTCTCTTCCAAGCCTT  
GCTCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001289896
Insert Size:	708 bp


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001289896.1, NP_001276825.1</u>
<b>RefSeq Size:</b>	2065 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	21832
<b>Cytogenetics:</b>	16 12.51 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) has an alternate splice site in the 3' coding region, which results in a reading frameshift, compared to variant 2. The resulting isoform (3, also known as Tpo4) has a shorter and distinct C-terminus, 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.</p>