

## Product datasheet for **SC336446**

### Thrombopoietin (THPO) (NM\_001290003) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombopoietin (THPO) (NM_001290003) Human Untagged Clone
Tag:	Tag Free
Symbol:	THPO
Synonyms:	MGDF; MKCSF; ML; MPLLG; THCYT1; TPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336446 representing NM\_001290003.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

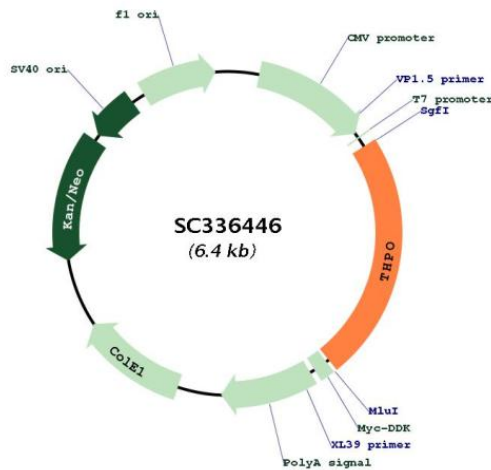
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:**

SgfI-MluI

**Plasmid Map:**



**ACCN:**

NM\_001290003

<b>Insert Size:</b>	1482 bp
<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>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>RefSeq:</b>	<u><a href="#">NM_001290003.1</a></u>
<b>RefSeq Size:</b>	2190 bp
<b>RefSeq ORF:</b>	1482 bp
<b>Locus ID:</b>	7066
<b>UniProt ID:</b>	<u><a href="#">P40225</a></u>
<b>Cytogenetics:</b>	3q27.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Hematopoietic cell lineage
<b>MW:</b>	53.2 kDa

**Gene Summary:**

Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C\_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (5) represents use of the upstream promoter and comprises seven exons. It is longer at the 5' end, compared to variant 1. This variant can initiate translation from two in-frame AUG sites. The isoform (5) represented in this Refseq is derived from the upstream AUG start codon and is longer at the N-terminus, compared to isoform 1. This isoform was described as a uAUG4 product in PMID: 9834204 and had no thrombopoietin bioactivity. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.