

## Product datasheet for **SC300074**

### Thrombopoietin (THPO) (NM\_000460) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombopoietin (THPO) (NM_000460) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thrombopoietin
Synonyms:	MGDF; MKCSF; ML; MPLL; THCYT1; TPO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000460 edited  
 CCTACCCATCTGCTCCCCAGAGGGCTGCCTGCTGTGCACCTGGGTCTGGAGCCCTTCTC  
 CACCCGGATAGATTCTCACCCTTGGCCCGCCTTTGCCACCCACTCTGCCAGAAGT  
 GCAAGAGCCTAAGCCGCCTCCATGGCCCCAGGAAGGATTCAGGGGAGAGGCCCAACAG  
 GGAGCCACGCCAGCCAGACACCCCGGCCAGAATGGAGCTGACTGAATTGCTCCTCGTGGT  
 CATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCCGGCTCCTCCTGTTGTGACCT  
 CCGAGTCTCAGTAACTGCTTCGTGACTCCCATGTCCTTACAGCAGACTGAGCCAGTG  
 CCCAGAGGTTACCCCTTTGCCTACACCTGTCTGCTGCCTGCTGTGGACTTTAGCTTGGG  
 AGAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCT  
 TCTGCTGGAGGGAGTGATGGCAGCACGGGGACAACCTGGGACCCACTTGCCTCTCATCCCT  
 CCTGGGGCAGCTTCTGGACAGGTCCGTCTCCTCCTTGGGGCCCTGCAGAGCCTCCTTGG  
 AACCCAGCTTCTCCACAGGGCAGGACCACAGCTCACAAGGATCCAATGCCATCTTCTCT  
 GAGCTTCCAACACCTGCTCCGAGGAAAGGTGCGTTTTCTGATGCTTGTAGGAGGGTCCAC  
 CCTCTGGCTCAGGCGGGCCCCACCCACCACAGCTGTCCCCAGCAGAACCTCTCTAGTCTCT  
 CACACTGAACGAGCTCCCAAACAGGACTTCTGGATTGTTGGAGACAACTTCACTGCCTC  
 AGCCAGAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTCAGAGCCAAGATTCC  
 TGGTCTGCTGAACCAAACCTCCAGGTCCCTGGACCAATCCCCGATACCTGAACAGGAT  
 ACACGAACTCTTGAATGGAACCTCGTGGACTCTTTCCTGGACCCTCACGCAGGACCCTAGG  
 AGCCCCGGACATTTCTCAGGAACATCAGACACAGGCTCCCTGCCACCAACCTCCAGCC  
 TGGATATTCTCCTTCCCCAACCCATCCTCCTACTGGACAGTATACGCTCTTCCCTCTTCC  
 ACCCACCTTGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCTGACCCTTCTGCTCC  
 AACGCCACCCCTACCAGCCCTTCTTAAACACATCCTACACCCACTCCCAGAATCTGTC  
 TCAGGAAGGGTAAGGTTCTCAGACACTGCCGACATCAGCATTGTCTCGTGTACAGCTCCC  
 TTCCTGCAGGGCGCCCTGGGAGACAACCTGGACAAGATTTCTACTTTCTCCTGAAACC  
 CAAAGCCC

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_000460
<b>Insert Size:</b>	1400 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>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000460.1.
<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_000460.2</a></u> , <u><a href="#">NP_000451.1</a></u>
<b>RefSeq Size:</b>	1805 bp
<b>RefSeq ORF:</b>	1062 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>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents use of the downstream promoter and comprises six exons. It encodes the main functional protein (isoform 1).</p>