

## Product datasheet for **SC335312**

### Thrombopoietin (THPO) (NM\_001290026) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Thrombopoietin (THPO) (NM\_001290026) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** THPO  
**Synonyms:** MGDF; MKCSF; ML; MPLL; THCYT1; TPO  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC335312 representing NM\_001290026.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

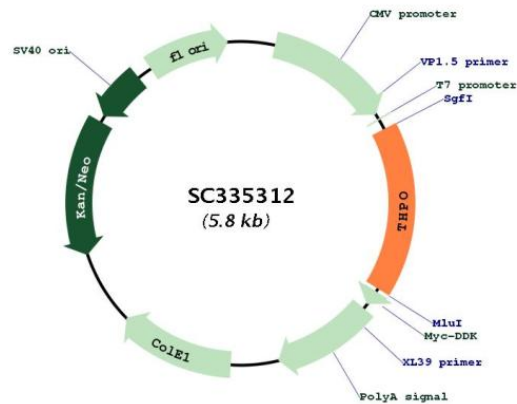
```
ATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCCG  
GCTCCTCCTGCTTGTGACCTCCGAGTCTCAGTAACTGCTTCGTGACTCCCATGTCCTTACAGCAGA  
CTGAGCCAGTGCCAGAGGTTACCCCTTGCCTACACCTGCTCCTGCTGCCTGCTGTGGACTTTAGCTTG  
GGAGAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTG  
GAGGGAGTGATGGCAGCACGGGACAACCTGGGACCCACTTGCCTCTCATCCCTCCTGGGGCAGCTTCT  
GGACAGGTCCTCCTCCTTGGGGCCCTGCAGAGCCTCCTTGAACCCAGGACCACAGCTCACAAGGA  
TCCAATGCCATCTTCTGAGCTTCCAACACTGCTCCGAGGAAAGGTGGGTTTCTGATGCTTGTAGG  
AGGGTCCACCCTCTGCGTCAGGCGGGCCCAACCACACAGCTGTCCCCAGCAGAACCTCTCTAGTCCT  
CACACTGAACGAGCTCCCAAACAGGACTTCTGGATTGTTGGAGACAAACTTCACTGCCTCAGCCAGAAC  
TACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTGAGAGCCAAGATTCTGGTCTGCTGAACCAAC  
CTCCAGGTCCTGGACCAATCCCGGATACCTGAACAGGATACACGAATCTTGAATGGAACCTCGTGG  
ACTTTTCTGGACCCTCACGCAGGACCCTAGGAGCCCCGGACATTTCTCAGGAACATCAGACACAGG  
CTCCCTGCCACCAACCTCCAGCCTGGATATTCTCCTTCCCAACCCATCCTCTACTGGACAGTATAC  
GCTCTTCCCTCTCCACCCACCTTGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCC
```

**Restriction Sites:** SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001290026

Insert Size: 960 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:**

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:	<a href="#">NM_001290026.1</a>
RefSeq Size:	2173 bp
RefSeq ORF:	960 bp
Locus ID:	7066
UniProt ID:	<a href="#">P40225</a>
Cytogenetics:	3q27.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Hematopoietic cell lineage
MW:	35.1 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 thrombocytopenia 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 (7) represents use of the upstream promoter and comprises seven exons. This variant is longer at the 5' end and has an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. This variant includes two main in-frame AUG sites, but translation initiated from the upstream AUG codon for this variant is not reported in literature. The isoform (3) represented in this RefSeq is derived from the downstream AUG start codon; it is identical to the isoform encoded by variant 3 and lacks an internal segment, as compared to isoform 1. This variant was reported in PMID: 7822271.

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.