

## Product datasheet for **RG237205**

### Thrombopoietin (THPO) (NM\_001289997) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombopoietin (THPO) (NM_001289997) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thrombopoietin
Synonyms:	MGDF; MKCSF; ML; MPLLG; THCYT1; TPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237205 representing NM_001289997. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCCG
GCTCCTCCTGCTTGTGACCTCCGAGTCTCAGTAACTGCTTCGTGACTCCCATGTCCTTCACAGCAGA
CTGAGCCAGTGCCAGAGGTTACCCCTTTGCCTACACCTGTCTGCTGCCTGCTGTGGACTTTAGCTTG
GGAGAAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTG
GAGGGAGTGATGGCAGCACGGGGACAACCTGGGACCCACTTGCCTCTCATCCCTCCTGGGGCAGCTTCT
GGACAGGTCGGTCTCCTCCTTGGGGCCCTGCAGAGCCTCCTTGAACCCAGCTTCTCCACAGGGCAGG
ACCACAGCTCACAAGGATCCCAATGCCATCTTCTGAGCTTCAAACACCTGCTCCGAGGAAAGGACTTC
TGGATTGTTGGAGACAACTTCACTGCCTCAGCCAGAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCA
GGGATTCAGAGCCAAGATTCTGGTCTGCTGAACCAAACCTCCAGGTCCTGGACCAAATCCCCGGATA
CCTGAACAGGATACACGAACTTTGAATGGAACCTCGTGGACTCTTTCCTGGACCCACACGAGGACCCCT
AGGAGCCCCGGACATTTCTCAGGAACATCAGACACAGGCTCCCTGCCACCAACCTCCAGCCTGGATA
TTCTCCTCCCAACCCATCCTCCTACTGGACAGTATACGCTCTTCCCTTCCACCCACCTTCCCCAC
CCCTGTGGTCCAGCTCCACCCCTGCTTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



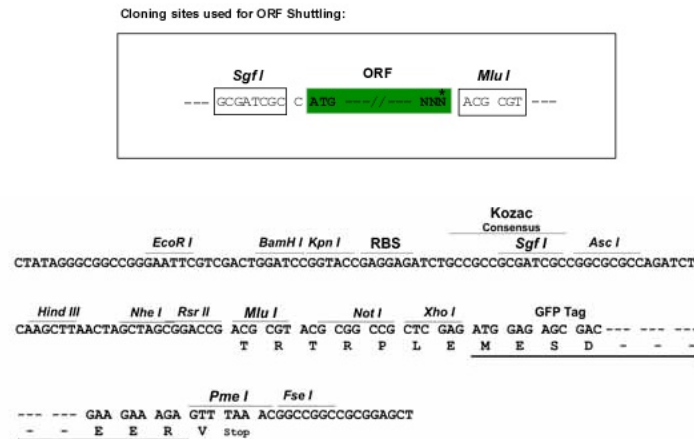
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237205  
 Blue=ORF Red=Cloning site Green=Tag(s)

MELTELLLVMLLLLTARLTLSSPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSL  
 GEWKTQMEETKAQDILGAVTLLELVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLGTLQPPQGR  
 TTAHKDPNAIFLSFQHLLRGKDFWIVGDKLHCLSQNYWLWASEVAAGIQSQDSWSAEPNLQVPGPNPRI  
 PEQDTRTLEWNSWTL SWTLTQDPRSPGHFLRNIRHRLPATQPPAWIFSFNPNSSYWTVYALPSSTHLAH  
 PCGPAPPAS  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289997

**ORF Size:** 858 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001289997.1](#), [NP\\_001276926.1](#)

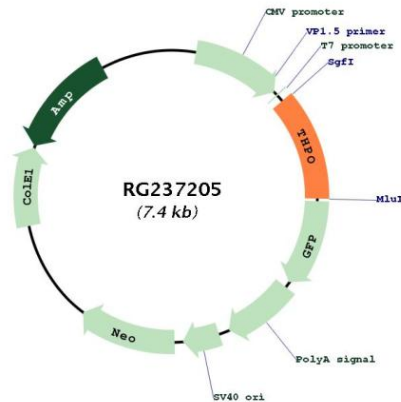
**RefSeq Size:** 1807 bp

**RefSeq ORF:** 861 bp

**Locus ID:** 7066  
**UniProt ID:** [P40225](#)  
**Cytogenetics:** 3q27.1  
**Protein Families:** Druggable Genome, Secreted Protein  
**Protein Pathways:** Hematopoietic cell lineage  
**MW:** 32 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]

**Product images:**



Circular map for RG237205