

Product datasheet for **RC238552**

Thrombopoietin (THPO) (NM_001290003) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RC238552 representing NM_001290003
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCCCCTATCCAATCTTCTCCGTGGTGTGTGGGTGGAGGAGTGGACCCTGGTCCAGGCAGGG
 GCTCCAGGGAAGAGAAGGCGTCACTTCCGGGGCCTTACCAGTGTCTGGTGGCTCCCTTCTGATTGG
 GCAGAAGTGGCCAGGCAGGCGTATGACCTGCTGCTGTGGAGGGCTGTGCCCCACCGCCACATGTCTTC
 CTACCCATCTGCTCCCCAGAGGGCTGCCTGCTGTGCACTTGGGTCTGGAGCCCTTCTCCACCCGGATAG
 ATTCTTACCCTTGGCCCGCTTGGCCACCCTACTCTGCCAGAAGTGAAGAGCCTAAGCCGCTCC
 ATGGCCCCAGGAAGGATTAGGGGAGAGGCCCAACAGGGAGCCACGCCAGCCAGACACCCCGCCAGA
 ATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCGG
 CTCTCTGCTTGTGACCTCCGAGTCTCAGTAACTGCTTCGTGACTCCCATGCTTCCACAGCAGACT
 GAGCCAGTGCCAGAGGTTACCCTTTGCCTACACCTGTCTGCTGCCTGCTGTGGACTTGTAGTTGGGA
 GAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTGGAGG
 GAGTGATGGCAGCACGGGACAACCTGGGACCCACTTGCCTCTCATCCCTCTGGGGCAGCTTTCTGGACA
 GGTCCGCTCCTCCTTGGGGCCCTGCAGAGCCTCCTTGGAAACCCAGCTTCTCCACAGGGCAGGACCACA
 GCTCACAAGGATCCCAATGCCATCTTCTGAGCTTCCAACACCTGCTCCGAGGAAAGGTGCGTTTCTGA
 TGCTTGTAGGAGGGTCCACCCTCTGCGTCAGGCGGGCCCCACCCACCACAGCTGTCCCAGCAGAACCTC
 TCTAGTCTCACACTGACGAGCTCCAAAACAGGACTTCTGGATTGTTGGAGACAACTTCACTGCCTCA
 GCCAGAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTAGAGCCAAGATTCTGGTCTGCTGA
 ACCAAACTCCAGTCCCTGGACCAATCCCGGATACCTGAACAGGATACACGAACCTTGAATGGAAC
 TCGTGGACTCTTTCCTGGACCTCACGCAGGACCTAGGAGCCCGGACATTTCTCAGGAACATCAGAC
 ACAGGCTCCCTGCCACCAACCTCCAGCCTGGATATTCTCCTTCCCAACCCATCCTCCTACTGGACAGT
 ATACGCTCTTCCCTTCCACCCACCTTGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCTGACCC
 TTCTGCTCCAACGCCACCCCTACCAGCCTCTTCTAAACACATCTACACCCACTCCAGAACTGTCT
 CAGGAAGGG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

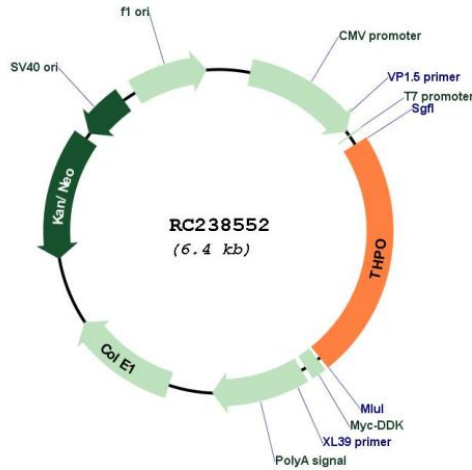
>RC238552 representing NM_001290003
 Red=Cloning site Green=Tags(s)

MDPPIQIFSVVVCVGGVDPGPGRGSREEKASLPGAFTSVWWLPSLIGQKWPRQAYDLLLWRGCAPPHVF
 LPICSPGCLLCTWLEPFSTRIDSSPLARLCPDLLCPEVQEPKPPWPQEGFRGEAPNREPRQDTPAR
 MELTELLLVMLLL TARLTLSSPAPPACDLRVL SKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLG
 EWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLL GALQSLLTGTLPPQGRRT
 AHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTNLNPNRTSGLLETNFTAS
 ARTTGSGLLKWQGFRAKIPGLLNQTSRSLDQIPGYLNRHELLNGTRGLFPGPSRRTLGPDISSGTS
 TGSLLPNLQPGYSPSPHPTGQYTLFPLPPTLPTPVVQLHPLLPDPSAPTPTPTSPLLNTSYTHSQNLS
 QEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:


ACCN: NM_001290003

ORF Size: 1479 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).

Reconstitution Method:	<ol style="list-style-type: none">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:	NM_001290003.1 , NP_001276932.1
RefSeq Size:	2190 bp
RefSeq ORF:	1482 bp
Locus ID:	7066
UniProt ID:	P40225
Cytogenetics:	3q27.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Hematopoietic cell lineage
MW:	53.7 kDa
Gene Summary:	<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>