

Product datasheet for **RG229880**

Thrombopoietin (THPO) (NM_001177598) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrombopoietin (THPO) (NM_001177598) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THPO
Synonyms:	MGDF; MKCSF; ML; MPLL; THCYT1; TPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229880 representing NM_001177598 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCCGG
CTCCTCCTGCTTGTGACCTCCGAGTCTCAGTAACTGCTTCGTGACTCCCATGTCCTTCACAGCAGACT
GAGCCAGTGCCAGAGGTTACCCCTTTGCCTACACCTGTCCTGCTGCCTGCTGTGGACTTGTAGTTGGGA
GAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTGGAGG
GAGTGATGGCAGCACGGGACAACCTGGGACCCACTTGCCTCTCATCCCTCCTGGGGCAGCTTCTGGACA
GGTCCGCTCCTCCTTGGGGCCCTGCAGAGCCTCCTTGAACCCAGGACCACAGCTCACAAAGGATCCCAA
TGCCATCTTCTGAGCTTCCAACACCTGCTCCGAGGAAAGGTGCGTTTCTGATGCTTGTAGGAGGGTCC
ACCCTCTGCGTCAGGCGGGCCCCACCCACCACAGCTGTCCCAGCAGAACCTCTCTAGTCCCTCACACTGA
ACGAGCTCCCAAACAGGACTTCTGGATTGTTGGAGACAACTTCACTGCCTCAGCCAGAACTACTGGCTC
TGGGCTTCTGAAGTGGCAGCAGGGATTCAGAGCCAAGATTCTGGTCTGCTGAACCAAACCTCCAGGTCC
CTGGACCAAATCCCCGGATACCTGAACAGGATACACGAACTCTTGAATGGAACCTCGTGGACTCTTTCCTG
GACCCTCAGCAGGACCTAGGAGCCCCGGACATTTCTCAGGAACATCAGACACAGGCTCCCTGCCACC
CAACCTCAGCCTGGATATTCTCCTTCCCAACCCATCCTCCTACTGGACAGTATACGCTCTTCCCTCTT
CCACCCACCTTGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229880 representing NM_001177598
 Red=Cloning site Green=Tags(s)

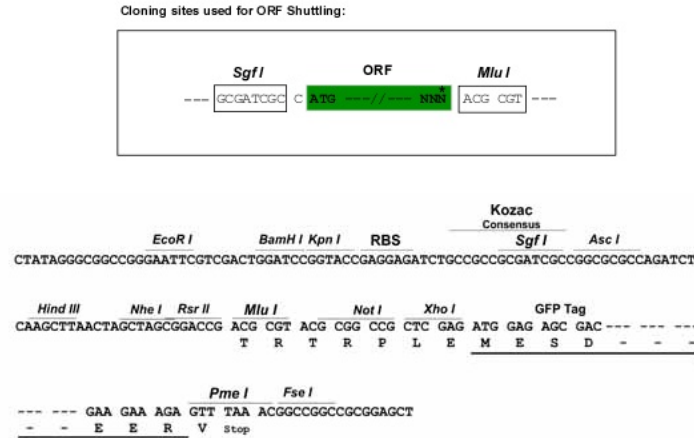
MELTELLLVMLLLTARLTLSSPAPPACDLRVLKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDLSLG
 EWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLGTDHSSQGSQ
 CHLPELPTPAPRKGAFPDACCRRVHPLRQAGPTHHSCPQQNLSPPHTERAPKQDFWIVGDKLHCLSQNYWL
 WASEVAAGIQSQDSWSAEPNLQVPGPNPRIPEQDTRTLEWNSWTLWTLTQDPRSPGHFLRNIRHRLPAT
 QPPAWIFSFPNPSSYWTYYALPSSSTHLAHPCCGAPPAS

TRTRPLE - GFP Tag - V

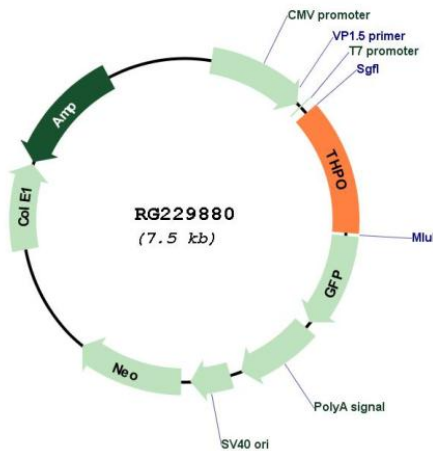
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177598

ORF Size: 957 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_001177598.2 , NP_001171069.1
RefSeq Size:	1788 bp
RefSeq ORF:	960 bp
Locus ID:	7066
UniProt ID:	P40225
Cytogenetics:	3q27.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Hematopoietic cell lineage
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]