

## Product datasheet for **RG229926**

### Thrombopoietin (THPO) (NM\_001177597) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Thrombopoietin (THPO) (NM\_001177597) 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:** >RG229926 representing NM\_001177597  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCCTAACTGCAAGGCTAACGCTGTCCAGCCGG  
 CTCCTCTGCTTGTGACCTCCGAGTCTCAGTAACTGCTTCGTGACTCCCATGTCCTTACAGCAGACT  
 GAGCCAGTGCCAGAGGTTACCCTTTGCCTACACCTGTCCTGCTGCCTGCTGTGGACTTAGCTTGGGA  
 GAATGGAAAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCTTCTGCTGGAG  
 GAGTGATGGCAGCACGGGACAACCTGGGACCCACTTGCCTCTCATCCCTCTGGGGCAGCTTCTGGACA  
 GGTCCGTCTCCTCTGGGGCCCTGCAGAGCCTCCTTGAACCCAGGGCAGGACCACAGCTCACAAGGAT  
 CCCAATGCCATCTTCTGAGCTTCCAACACCTGCTCCGAGGAAAGGTGCGTTTCTGATGCTTGTAGGAG  
 GGTCCACCCTCTGCGTCAGGCGGGCCCCACCCACCACAGCTGTCCCAGCAGAACCTCTCTAGTCCCTCAC  
 ACTGAACGAGCTCCCAAACAGGACTTCTGGATTGTTGGAGACAACTTCACTGCCTCAGCCAGAACTACT  
 GGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTACAGAGCCAAGATTCTGGTCTGCTGAACCAAACCTCCA  
 GGTCCTGGACCAATCCCCGGATACCTGAACAGGATACACGAACTTGAATGGAACCTCGTGGACTCTT  
 TCCTGGACCCTCACGCAGGACCTTAGGAGCCCCGGACATTTCTCAGGAACATCAGACACAGGCTCCCTG  
 CCACCAAACCTCAGCCTGGATATTCTCCTTCCCAACCATCCTCTACTGGACAGTATACGCTCTTCC  
 CTCTTCCACCACCTTGGCCACCCTGTGGTCCAGCTCCACCCCTGCTTCTGACCCTTCTGCTCCAAC  
 GCCCACCCCTACCAGCCCTTTCTAAACACATCTACACCCTCCAGAACTCTGCTCAGGAAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229926 representing NM\_001177597  
 Red=Cloning site Green=Tags(s)

MELTELLLVMLLLTARLTLSSPAPPACDLRVLKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLG  
 EWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLGTRTTAHKD  
 PNAIFLSFQHLRKGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTNLNPNRTSGLLETNFTASARTT  
 GSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGPDISSGTSDTGSL  
 PPNLQPGYSPSPHPTGQYTLFPLPPTLPTPVVQLHPLLDPDSAPTPTPTSPLNNTSYTHSQNLSQEG

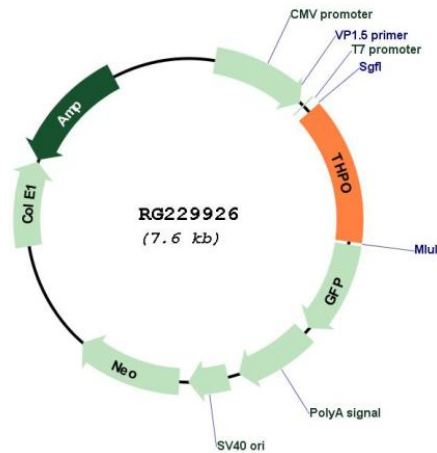
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001177597

**ORF Size:** 1047 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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>                | <a href="#">NM_001177597.2</a> , <a href="#">NP_001171068.1</a>  |
| <b>RefSeq Size:</b>           | 1793 bp  |
| <b>RefSeq ORF:</b>            | 1050 bp  |
| <b>Locus ID:</b>              | 7066   |
| <b>UniProt ID:</b>            | <a href="#">P40225</a>   |
| <b>Cytogenetics:</b>          | 3q27.1   |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein   |
| <b>Protein Pathways:</b>      | Hematopoietic cell lineage   |
| <b>Gene Summary:</b>          | 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] |