

## Product datasheet for RC229880L3

### Thrombopoietin (THPO) (NM\_001177598) Human Tagged Lenti ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Thrombopoietin (THPO) (NM_001177598) Human Tagged Lenti ORF Clone |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Thrombopoietin  |
| Synonyms:                 | MGDF; MKCSF; ML; MPLLG; THCYT1; TPO                               |
| Mammalian Cell Selection: | Puromycin   |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                              |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC229880).    |
| Restriction Sites:        | SgfI-MluI   |
| Cloning Scheme:           |   |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

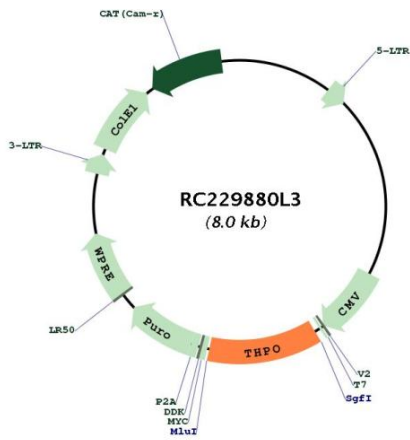
|           |              |
|-----------|--------------|
| ACCN:     | NM_001177598 |
| ORF Size: | 957 bp       |



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|                               |  |
|-------------------------------|--|
| <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_001177598.2</a> , <a href="#">NP_001171069.1</a>  |
| <b>RefSeq Size:</b>           | 1906 bp  |
| <b>RefSeq ORF:</b>            | 960 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>MW:</b>                    | 35.1 kDa   |
| <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] |

Product images:



Circular map for RC229880L3