

Product datasheet for **SC303629**

TPOR (MPL) (NM_005373) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPOR (MPL) (NM_005373) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPOR
Synonyms:	C-MPL; CD110; MPLV; THCYT2; THPOR; TPOR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC303629 sequence for NM_005373 edited (data generated by NextGen Sequencing)

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ATGCCCTCCTGGGCCCTTTCATGGTCACCTCCTGCCTCCTGGCCCCCAAACCTG
GCCAAGTCAGCAGCCAAGATGTCTCCTTGCTGGCATCAGACTCAGAGCCCCTGAAGTGT
TTCTCCCGAACATTTGAGGACCTCACTTGCTTCTGGGATGAGGAAGAGGCAGGCCCACT
GGGACATACCAGCTGCTGTATGCCTACCCGCGGAGAAAGCCCCGTGCTTGCCCCCTGAGT
TCCCAGAGCATGCCCACTTTGGAACCCGATACGTGTGCCAGTTTCCAGACCAGGAGGAA
GTGCGTCTCTTCTTCCGCTGCACCTCTGGGTGAAGAATGTGTTCTAAACCAGACTCGG
ACTCAGCGAGTCTCTTTGTGGACAGTGTAGGCCTGCCGGCTCCCCCAGTATCATCAAG
GCCATGGGTGGGAGCCAGCCAGGGGAACCTCAGATCAGCTGGGAGGAGCCAGCTCCAGAA
ATCAGTGATTTCTGAGGTACGAACTCCGCTATGGCCCCAGAGATCCCAAGAACTCCACT
GGTCCCACGGTACACAGCTGATTGCCACAGAAACCTGCTGCCCTGCTCTGCAGAGGCCCT
CACTCAGCCTCTGCTCTGGACCAGTCTCCATGTGCTCAGCCACAATGCCCTGGCAAGAT
GGACAAAGCAGACCTCCCAAGTAGAGAAGCTTCAGCTCTGACAGCAGAGGGTGAAGC
TGCTCATCTCAGACTCCAGCCTGGCAACTCCTACTGGCTGCAGCTGCCAGCGAACCT
GATGGGATCTCCCTCGGTGGCTCCTGGGATCCTGGTCCCTCCCTGTGACTGTGGACCTG
CCTGGAGATGCAGTGGCACTTGGACTGCAATGCTTTACCTTGGACCTGAAGAATGTTACC
TGTCAATGGCAGCAACAGGACCATGCTAGCTCCCAAGGCTTCTTCTACCACAGCAGGGCA
CGGTGCTGCCCCAGAGACAGGTACCCCATCTGGGAGAAGTGCAGAGGAAGAGAAAAACA
AATCCAGGACTACAGACCCACAGTTCTCTCGTGCCACTTCAAGTACGAAATGACAGC
ATTATTCACATCCTTGTGGAGGTGACCACAGCCCCGGTACTGTTACAGCTACCTGGGC
TCCCCTTTCTGGATCCACCAGGCTGTGCGCCTCCCACCCAAACTTGCAGTGGAGGGAG
ATCTCCAGTGGCATCTGGAATTGGAGTGGCAGCACCCATCGTCTGGGCAGCCCAAGAG
ACCTGTTATCAACTCCGATACACAGGAGAAGGCCATCAGGACTGGAAGGTGCTGGAGCCG
CCTCTCGGGGCCGAGGAGGGACCTGGAGCTGCGCCCGCATCTCGCTACCGTTTACAG
CTGCGCGCCAGGCTCAACGGCCCCACCTACCAAGGTCCCTGGAGCTCGTGGTCCGACCCA
ACTAGGGTGGAGACCGCCACCGAGACCGCTGGATCTCCTTGGTGACCGCTCTGCATCTA
GTGCTGGGCCTCAGCGCCGCTCTGGCCTGCTGCTGCTGAGGTGGCAGTTTCTGCACAC
TACAGGAGACTGAGGCATGCCCTGTGGCCCTCACTTCCAGACTGCACCGGGTCTAGGC
CAGTACCTTAGGGACACTGCAGCCCTGAGCCCGCCCAAGGCCACAGTCTCAGATACTGT
GAAGAAGTGAACCCAGCCTCCTGAAATCCTCCCAAGTCTCAGAGAGGACTCCTTTG
CCCTGTGTTCTCCAGGCCAGATGGACTACCGAAGATTGCAGCCTTCTTGCCTGGGG
ACCATGCCCTGTCTGTGTGCCACCCATGGCTGAGTCAGGGTCTGTGTACCACCCAC
ATTGCCAACCATTCCTACCTACCACTAAGCTATTGGCAGCAGCCTTGA

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Clone variation with respect to NM_005373.2

Restriction Sites: Please inquire

ACCN: NM_005373

Insert Size: 2000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: It is not a variant.

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:

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_005373.1](#), [NP_005364.1](#)

RefSeq Size: 3646 bp

RefSeq ORF: 1908 bp

Locus ID: 4352

UniProt ID: [P40238](#)

Cytogenetics: 1p34.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Gene Summary: In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein that was homologous with members of the hematopoietic receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. The ligand for c-mpl, thrombopoietin, was cloned in 1994. Thrombopoietin was shown to be the major regulator of megakaryocytopoiesis and platelet formation. The protein encoded by the c-mpl gene, CD110, is a 635 amino acid transmembrane domain, with two extracellular cytokine receptor domains and two intracellular cytokine receptor box motifs. TPO-R deficient mice were severely thrombocytopenic, emphasizing the important role of CD110 and thrombopoietin in megakaryocyte and platelet formation. Upon binding of thrombopoietin CD110 is dimerized and the JAK family of non-receptor tyrosine kinases, as well as the STAT family, the MAPK family, the adaptor protein Shc and the receptors themselves become tyrosine phosphorylated. [provided by RefSeq, Jul 2008]