

## Product datasheet for RC202652L3

## OriGene Technologies, Inc.

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## Triosephosphate isomerase (TPI1) (NM\_000365) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Triosephosphate isomerase (TPI1) (NM 000365) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Triosephosphate isomerase

Synonyms: HEL-S-49; TIM; TPI; TPID

Mammalian Cell Puromycin

Selection: Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clo

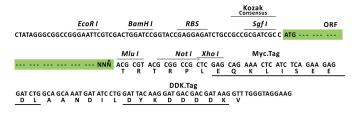
Sequence:

The ORF insert of this clone is exactly the same as(RC202652).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_000365

ORF Size: 747 bp



## Triosephosphate isomerase (TPI1) (NM\_000365) Human Tagged Lenti ORF Clone - RC202652L3

**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:** 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:** <u>NM 000365.4</u>

 RefSeq Size:
 1366 bp

 RefSeq ORF:
 750 bp

 Locus ID:
 7167

 UniProt ID:
 P60174

Cytogenetics: 12p13.31

Domains: TIM

**Protein Pathways:** Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol phosphate

metabolism, Metabolic pathways

**MW:** 26.7 kDa

**Gene Summary:** This gene encodes an enzyme, consisting of two identical proteins, which catalyzes the

isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Mutations in this gene are associated with

triosephosphate isomerase deficiency. Pseudogenes have been identified on chromosomes 1, 4, 6 and 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr

2009]