

Product datasheet for MC209570

Tpi1 (NM_009415) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpi1 (NM_009415) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpi1
Synonyms:	AI255506; Tpi; Tpi-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209570 representing NM_009415 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGGGAAGGCGGAGCAGCAAGGGGCCGGCTAACCATGGCGGAGGGCGGGGAGAAGGAGGAGTTCT
GCTTCACAGCCATCTATAAAGTGGCCAGTGGAGAGAGCCGTGCGTTTGTACTGACCTTCAGAGACTTGA
GCCTGGTACAATGGCGCCTACCAGGAAGTCTTCGTTGGGGCAACTGGAAGATGAACGGGAGGAAGAAG
TGCTGGGAGAACTCATCTGCACCCTGAACGCAGCCAACGTGCCGGCAGGCACCGAGGTGGTTTGTGCAC
CGCCACCGCTTACATCGACTTTGCCAGACAGAAGCTGGATCCCAAAATTGCTGTGGCCGCACAGAAGT
CTACAAAGTGACCAATGGGGCCTTCACTGGGAAATCAGCCCTGGCATGATCAAAGACTTAGGAGCCACC
TGGGTCGTGCTGGGCACTCAGAAAGAAGCATGTCTTTGGAGAATCAGATGAGCTGATTGGCCAGAAAG
TGAGCCACGCCCTAGCAGAGGGACTCGGGGTGATCGCCTGCATCGGGGAGAAGCTAGACGAAAGGGAAAGC
CGGCATCACCGAGAAGGTCGTGTTTCGAGCAAACCAAGGTCATCGCAGATAATGTGAAAGACTGGAGCAAG
GTGGTCTGGCCTATGAACCTGTGTGGGCCATTGGGACTGGCAAGACGGCAACCCCTCAGCAGGCACAGG
AAGTACACGAGAAGCTCCGGGGATGGCTGAAATCCAATGTCAATGATGGGGTGGCTCAGAGCACCCGGAT
CATTTATGGAGGTTCTGTGACTGGAGCAACCTGCAAAGAGCTGGCAAGCCAGCCTGACGTGGACGGCTTC
CTTGTGGGTGGCGCATCTCAAGCCTGAATTTGTGGACATCATCAATGCCAAACAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_009415
Insert Size:	900 bp



[View online »](#)

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_009415.2](#), [NP_033441.2](#)

RefSeq Size: 1601 bp

RefSeq ORF: 900 bp

Locus ID: 21991

UniProt ID: [P17751](#)

Cytogenetics: 6 59.17 cM

Gene Summary: Triosephosphate isomerase is an extremely efficient metabolic enzyme that catalyzes the interconversion between dihydroxyacetone phosphate (DHAP) and D-glyceraldehyde-3-phosphate (G3P) in glycolysis and gluconeogenesis.[UniProtKB/Swiss-Prot Function]