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Product datasheet for MG203161

Tpi1 (NM_009415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpi1 (NM_009415) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tpi1
Synonyms:	AI255506; Tpi; Tpi-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203161 representing NM_009415
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGGAAGGCGGAGCAGCAAGGGGCCGGGCTAACCATGGCGGAGGGCGGGGAGAAGGAGGAGTTCT
GCTTCACAGCCATCTATATAAGTGGCCAGTGGAGAGAGCCGTGCGTTTGTACTGACCTTCAGAGACTTGA
GCCTGGTACAATGGCGCCTACCAGGAAGTTCTTCGTTGGGGGCAACTGGAAGATGAACGGGAGGAAGAAG
TGCCTGGGAGAACTCATCTGCACCCTGAACGCAGCCAACGTGCCGGCAGGCACCGAGGTGGTTTGTGCAC
CGCCCACCGCTTACATCGACTTTGCCAGACAGAAGCTGGATCCCAAAATTGCTGTGGCCGCACAGAACTG
CTACAAAGTGACCAATGGGGCCTTCACTGGGGAAATCAGCCCTGGCATGATCAAAGACTTAGGAGCCACC
TGGGTCGTGCTGGGGCACTCAGAAAGAAGACATGTCTTTGGAGAATCAGATGAGCTGATTGGCCAGAAAG
TGAGCCACGCCCTAGCAGAGGGACTCGGGGTGATCGCCTGCATCGGGGAGAAGCTAGACGAAAGGGAAGC
CGGCATCACCGAGAAGGTCGTGTTCGAGCAAACCAAGGTCATCGCAGATAATGTGAAAGACTGGAGCAAG
GTGGTCCTGGCCTATGAACCTGTGTGGGCCATTGGGACTGGCAAGACGGCAACCCCTCAGCAGGCACAGG
AAGTACACGAGAAGCTCCGGGGATGGCTGAAATCCAATGTCAATGATGGGGTGGCTCAGAGCACCCGGAT
CATTTATGGAGGTTCTGTGACTGGAGCAACCTGCAAAGAGCTGGCAAGCCAGCCTGACGTGGACGGCTTC
CTTGTGGGTGGCGCATCTCTCAAGCCTGAATTTGTGGACATCATCAATGCCAAACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG203161 representing NM_009415
Red=Cloning site Green=Tags(s)

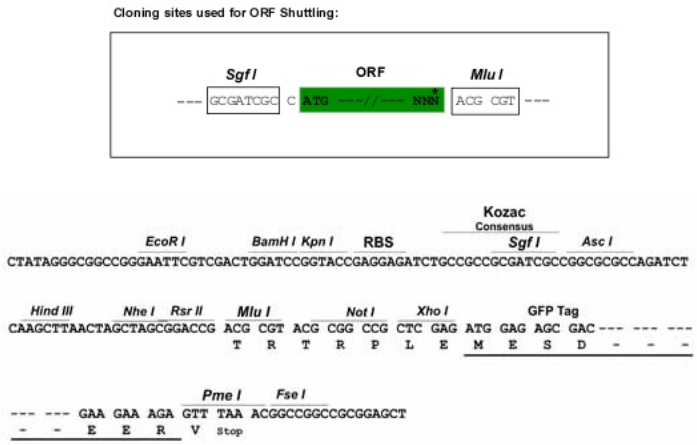
MEGKAEQQGAGLTMAEGGEKEEFCFTAIYISGQWREPCVCTDLQRLEPGTMAPTRKFFVGGNWKMNGRKK
CLGELICTLNAANVPAGTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAFTGEISPGMIKDLGAT
WVVLGHSERRHVFGESDELIGQKVSHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKVIADNVKDWSK
VVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVNDGVAQSTRIIYGGSVTGATCKELASQPDVDGF
LVGGASLKPEFVDIINAKQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009415

ORF Size: 897 bp

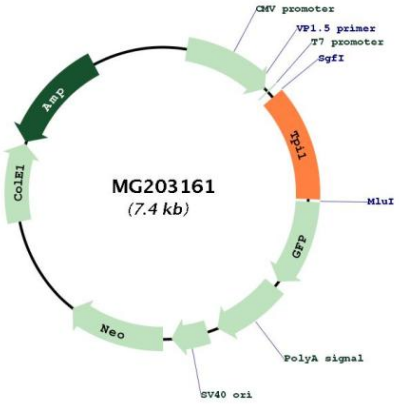
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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]

Product images:



Circular map for MG203161