

## Product datasheet for **MG202741**

### Timm50 (BC010303) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Timm50 (BC010303) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Timm50
Synonyms:	2810403L02Rik; AU015082; TIM50L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202741 representing BC010303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCATCGAGCCACCAGTCCCTGCCTTCTCCCAGACCCTCTGCGGGAGCCCTACTACCAGCCACCTT  
ATACACTGGTCTGGAGCTTACCGGGTCTTCTGCACCCAGAGTGGTCGCTGGCCACTGGCTGGAGGTT  
TAAGAAGCGTCCAGGCATCGAGACCTTGTCCAGCAGCTTGCCCTCTGTATGAAATAGTCATCTTCACA  
TCAGAGACTGGCATGACTGCATTTCCACTCATTGATAGTGTGGACCCTCACGTTTCATCTCCTACCGTC  
TGTTCCGGGACGCCACCAGATATATGGAGGGACATCATGTGAAGGACATCTCCTGTCTGAATCGGGACCC  
AGCCCGAGTAGTAGTCGTGGACTGCAAGAAGGAAGCTTTCGCGCTCCAGCCCTCAACGGTGTTCGCCTG  
CGGCCCTGGGATGGCAACTCAGATGACCGGGTCTTGTCTGGACCTGTCTGCCTTCCTCAAGACCATTGCAC  
TGAACCAAGTGGAGGACGTCGGACGGTCTGGAGCACTATGCTCTAGAGGATGACCCACTGGAGGCATT  
CAAACAGCGGCAGAGCCGGCTTGAGCAGGAGGAGCAGCAGCGCTGGCCGAGCTCTCCAAGTCCAACAGG  
CAGGGCTCTCCTTTGGCTCACTCGCCAGCCGACTGTGGCCTCGCTCCAAGCAGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202741 representing BC010303  
 Red=Cloning site Green=Tags(s)

MIIIEPTSPCLLPDPLREPYYPYTLVLELTGVLLHPEWSLATGWRFFKKRPGIETLFQQLAPLYEIVIFT  
 SETGMTAFPLIDSVDPHGFISYRLFRDATRYMEGHHVKDISCLNRDPARVVVVDCKKEAFRLQPFNGVAL  
 RPWDGNSDDRVLDDLAFKLTIALNQVEDVRTVLEHYALEDDPLEAFKQQRSRLEQEEQQRLAELSKSNR  
 QGLSFGSLASRLWPRSKQP

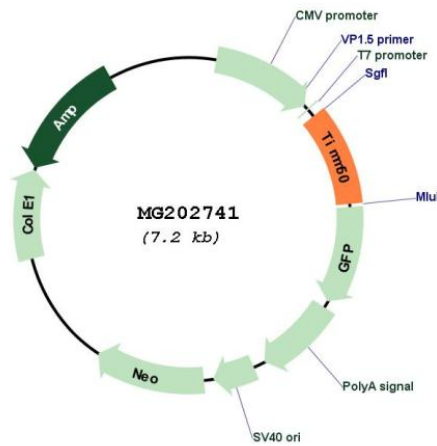
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC010303

**ORF Size:** 689 bp

<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="#">BC010303</a> , <a href="#">AAH10303</a>
<b>RefSeq Size:</b>	1487 bp
<b>RefSeq ORF:</b>	689 bp
<b>Locus ID:</b>	66525
<b>Cytogenetics:</b>	7 A3
<b>Gene Summary:</b>	Essential component of the TIM23 complex, a complex that mediates the translocation of transit peptide-containing proteins across the mitochondrial inner membrane. Has some phosphatase activity in vitro; however such activity may not be relevant in vivo. [UniProtKB/Swiss-Prot Function]