

## Product datasheet for **MG221691**

### Tmbim6 (NM\_001171036) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmbim6 (NM_001171036) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmbim6
Synonyms:	5031406P05Rik; Bi1; Tegt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221691 representing NM_001171036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATATATTTGATCGGAAGATCAACTTTGATGCCCTCTAAAATTTCCACATAACTCCCTCGACAC  
AGCAGCACCTAAAGAAGGTCTATGCCAGTTTTGCACTATGTATGTTTGTGGCGGCAGCAGGGCCTATGT  
CCATGTGGTCACACACTTCATCCAGGCTGGCTACTCTCCGCCCTGGCTCCTTGGCCTTGATGATTTGG  
CTGATGGCAACACCTCACAGCCATGAGACCGAGCAAAGAGACTGGGACTTCTCGCTGGCTTCGCCTTCC  
TCACAGGAGTCGGCTGGGACCTGCCCTGGAGCTGTGCATCGCTGTCAACCCAGCATCCTCCCCACGGC  
CTTCATGGGCACGGCCATGATCTTCACCTGCTTCAGCCTGAGCGCCCTGTATGCCCGCGCCGGAGCTAC  
CTGTTTTTAGGAGGTATCTTGATGTCAGCCATGAGCCTCATGCTCCTGTCTCTGCGGAACTTTTCT  
TTGGCTCCATTTGGCTGTTCCAGGCAAACCTGTACCTGGGACTGCTGGTCATGTGTGGCTTTGTCCTCTT  
TGATACTCAGCTCATTATTGAGAAGGCTGAACACGGAGATAAGGATTACATCTGGCACTGCGTTGACCTC  
TTCCTAGATTTTCGTTACCCTCTTCAGGAAGCTCATGTTGATCCTGGCCTTCAATGAGAAGGACAAGAAGA  
AAGAAAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221691 representing NM\_001171036  
Red=Cloning site Green=Tags(s)

MNIFDRKINFDALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHVVTHFIQAGLLSALGSLALMIW  
 LMATPHSHETEQRLLAGFAFLTGVGLGPALELCIAVNPSILPTAFMGMTAMIFTCFSLSALYARRRSY  
 LFLGGILMSAMSLMLLSSLGNLFFGSIWLFQANLYLGLLVMCGFVLFDTQLIEKAEHGDKDYIWHCVDL  
 FLDFVTLFRKMLILAFNEKDKKKEKK

TRTRPLE - GFP Tag - V

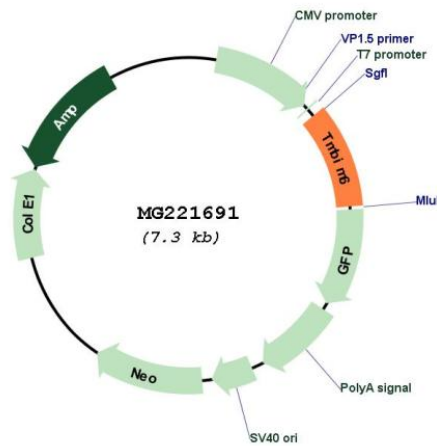
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001171036

**ORF Size:** 711 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="#">NM_001171036.1</a> , <a href="#">NP_001164507.1</a>
<b>RefSeq Size:</b>	2433 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	110213
<b>UniProt ID:</b>	<a href="#">Q9D2C7</a>
<b>Cytogenetics:</b>	15 56.13 cM
<b>Gene Summary:</b>	Suppressor of apoptosis (By similarity). Modulates unfolded protein response signaling (By similarity). Modulates ER calcium homeostasis by acting as a calcium-leak channel (By similarity). Negatively regulates autophagy and autophagosome formation, especially during periods of nutrient deprivation, and reduces cell survival during starvation (PubMed:21926971).[UniProtKB/Swiss-Prot Function]