

Product datasheet for **MG202905**

Tmbim6 (NM_026669) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmbim6 (NM_026669) 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:	>MG202905 representing NM_026669 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATATATTTGATCGGAAGATCAACTTTGATGCCCTCTAAAATTTCCACATAACTCCCTCGACAC
AGCAGCACCTAAAGAAGGTCTATGCCAGTTTTGCACTATGTATGTTTGTGGCGGCAGCAGGGCCTATGT
CCATGTGGTCACACACTTCATCCAGGCTGGCCTACTCTCCGCCCTGGGCTCCTTGGCCTTGATGATTTGG
CTGATGGCAACACCTCACAGCCATGAGACCGAGCAAAGAGACTGGGACTTCTCGCTGGCTTCGCCTTCC
TCACAGGAGTCGGCCTGGGACCTGCCCTGGAGCTGTGCATCGCTGTCAACCCAGCATCCTCCCCACGGC
CTTCATGGGCACGGCCATGATCTTCACCTGCTTCAGCCTGAGCGCCCTGTATGCCCGCGCCGGAGCTAC
CTGTTTTTAGGAGGTATCTTGATGTCAGCCATGAGCCTCATGCTCCTGTCTCTGCGGAACTTTTCT
TTGGCTCCATTTGGCTGTTCCAGGCAAACCTGTACCTGGGACTGCTGGTCATGTGTGGCTTTGTCCTCTT
TGATACTCAGCTCATTATTGAGAAGGCTGAACACGGAGATAAGGATTACATCTGGCACTGCGTTGACCTC
TTCCTAGATTTTCGTTACCTCTTCAGGAAGCTCATGTTGATCCTGGCCTTCAATGAGAAGGACAAGAAGA
AAGAAAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202905 representing NM_026669
Red=Cloning site Green=Tags(s)

MNIFDRKINFDALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHVVTHFIQAGLLSALGSLALMIW
 LMATPHSHETEQRLLAGFAFLTGVGLGPALELCIAVNPSILPTAFMGTMIFTCFSLSALYARRRSY
 LFLGGILMSAMSLMLLSSLGNLFFGSIWLFQANLYLGLLVMCGFVLFDTQLIEKAEHGDKDYIWHCVDL
 FLDFVTLFRKMLILAFNEKDKKKEKK

TRTRPLE - GFP Tag - V

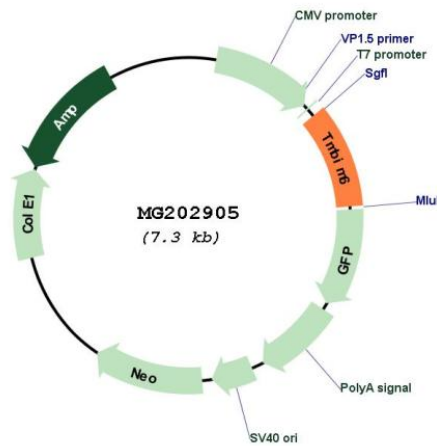
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_026669

ORF Size: 711 bp

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:	<ol style="list-style-type: none">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_026669.4
RefSeq Size:	2342 bp
RefSeq ORF:	714 bp
Locus ID:	110213
UniProt ID:	Q9D2C7
Cytogenetics:	15 56.13 cM
Gene Summary:	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]