

Product datasheet for MR221691

Tmbim6 (NM_001171036) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmbim6 (NM_001171036) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmbim6
Synonyms:	5031406P05Rik; Bi1; Tegt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221691 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATATATTTGATCGGAAGATCAACTTTGATGCCCTCTTAAAATTTCCACATAAACCCTCGACAC
AGCAGCACCTAAAGAAGGTCTATGCCAGTTTTGCACTATGTATGTTTGTGGCGGCAGCAGGGCCTATGT
CCATGTGGTCACACACTTCATCCAGGCTGGCCTACTCTCCGCCCTGGGCTCCTTGGCCTTGATGATTTGG
CTGATGGCAACACCTCACAGCCATGAGACCGAGCAAAGAGACTGGGACTTCTCGCTGGCTTCGCCTTCC
TCACAGGAGTCGGCCTGGGACCTGCCCTGGAGCTGTGCATCGCTGTCAACCCAGCATCCTCCCCACGGC
CTTCATGGGCACGGCCATGATCTTCACCTGCTTCAGCCTGAGCGCCTGTATGCCCGCGCCGGAGCTAC
CTGTTTTTAGGAGGTATCTTGATGTCAGCCATGAGCCTCATGCTCCTGTCTCTGCGGAACTTTTCT
TTGGCTCCATTTGGCTGTTCCAGGCAAACCTGTACCTGGGACTGCTGGTCATGTGTGGCTTTGTCCTCTT
TGATACTCAGCTCATTATTGAGAAGGCTGAACACGGAGATAAGGATTACATCTGGCACTGCGTTGACCTC
TTCCTAGATTTTCGTTACCCTCTTCAGGAAGCTCATGTTGATCCTGGCCTTCAATGAGAAGGACAAGAAGA
AAGAAAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221691 protein sequence
Red=Cloning site Green=Tags(s)

MNIFDRKINFDALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHVVTHFIQAGLLSALGSLALMIW
 LMATPHSHETEQRLLAGFAFLTGVLGPALELCIAVNPSILPTAFMGMTAMIFTCFSLSALYARRRSY
 LFLGGILMSAMSLMLLSSLGNLFFGSIWLFQANLYLGLLV MCGFVLFDTQLIEKAEHGDKDYIWHCVDL
 FLDFVTLFRKLMILAFNEKDKKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001171036

ORF Size: 714 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:

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_001171036.1](#), [NP_001164507.1](#)

RefSeq Size: 2433 bp

RefSeq ORF: 714 bp

Locus ID: 110213

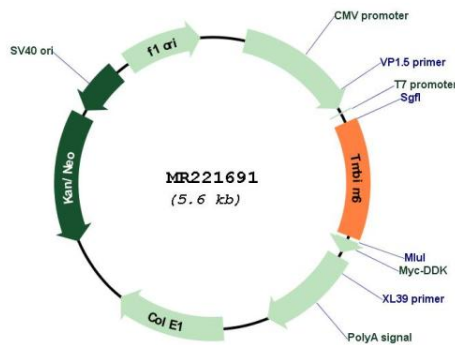
UniProt ID: [Q9D2C7](#)

Cytogenetics: 15 56.13 cM

MW: 26.5 kDa

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]

Product images:



Circular map for MR221691