

Product datasheet for **RG224137**

TMBIM4 (NM_016056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMBIM4
Synonyms:	CGI-119; GAAP; LFG4; SIR; ZPRO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG224137 representing NM_016056
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGTCGAGTGTAGGCTCCACGTTGGACCGGGACCGGTAGGGGTAGCTGTTGCCATCATGGCTGACC
CCGACCCCCGGTACCCTCGCTCCTCGATCGAGGACGACTTCAACTATGGCAGCAGCGTGGCCTCCGCCAC
CGTGCACATCCGAATGGCCTTCTGAGAAAAGTCTACAGCATTCTTCTCTGCAGGTTCTCTTAACA
GTGACTTCAACAGTTTTTTTATACTTTGAGTCTGTACGGACATTTGTACATGAGAGTCCTGCCTTAATTT
TGCTGTTTGGCCTCGGATCTCTGGGTTTGATTTTGGCTTGACTTTAAACAGACATAAGTATCCCTTAA
CCTGTACCTACTTTTTGGATTTACGCTGTTGGAAGCTCTGACTGTGGCAGTTGTTGTTACTTTCTATGAT
GTATATATTATTCTGCAAGCTTTCATACTGACTACTACAGTATTTTTGGTTTGACTGTGTATACTCTAC
AATCTAAGAAGGATTTTCAGCAAATTTGGAGCAGGGCTGTTTGCTCTTTTGTTGATATTGTGCTGTCAGG
ATTCTTGAAGTTTTTTTTTATAGTGAGATAATGGAGTTGGTCTTAGCCGCTGCAGGAGCCCTTCTTTTC
TGTGGATTCATCATCTATGACACACTCACTGATGCATAAACTGTACCTGAAGAGTACGATTAGCTG
CCATCAGCCTCTACTTGGATATCATCAATCTATTCTGCACCTGTTACGGTTTCTGGAAGCAGTTAATAA
AAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



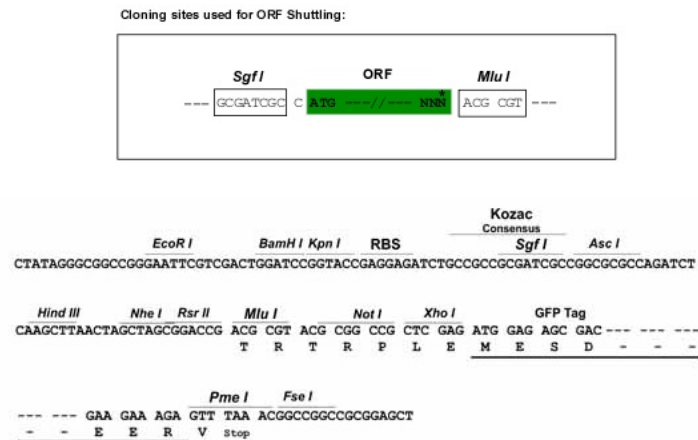
Protein Sequence: >RG224137 representing NM_016056
Red=Cloning site Green=Tags(s)

MWSSVGSHVGPVGVAVAIMADPDPRYPRSSIEDDFNYGSSVASATVHIRMAFLRKVYSILSLQVLLTT
VTSTVFLYFESVRTFVHESPALILLFALGSLGLIFALTNRHKYPLNLYLLFGFTLLLEALTVAVVTFYD
VYIILQAFILTTTVFFGLTVYTLQSKKDFSKFGAGLFALLWILCLSGFLKFFFYSEIMELVLAAGALLF
CGFIIYDTHSLMHKLSPEEYVLAASISLYLDIINLFLHLLRFLEAVNKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016056

ORF Size: 774 bp

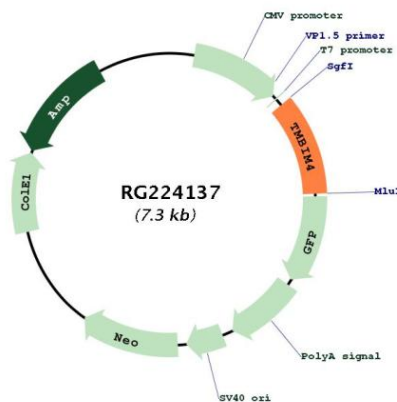
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_016056.1, NP_057140.1</u>
RefSeq Size:	1325 bp
RefSeq ORF:	717 bp
Locus ID:	51643
UniProt ID:	<u>Q9HC24</u>
Cytogenetics:	12q14.3
Domains:	UPF0005
Protein Families:	Transmembrane
Gene Summary:	Anti-apoptotic protein which can inhibit apoptosis induced by intrinsic and extrinsic apoptotic stimuli. Can modulate both capacitative Ca ²⁺ entry and inositol 1,4,5-trisphosphate (IP3)-mediated Ca ²⁺ release.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224137