

Product datasheet for **RG207700**

TMUB1 (NM_031434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMUB1
Synonyms:	C7orf21; DULP; HOPS; SB144
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207700 representing NM_031434
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCCTGATTGAAGGGGTGGGTGATGAGGTGACCGTCCTTTCTCGGTGCTTGCCTGCCTTCTGGTGC
TGGCCCTTGCTGGGTCTCAACGCACACCGCTGAGGGCGGGGACCACTGCCCCAGCCGTCAGGGACCCC
AACGCCATCCCAGCCCAGCGCAGCCATGGCAGCTACCGACAGCATGAGAGGGGAGGCCCCAGGGGCAGAG
ACCCCGAGCCTGAGACACAGAGGTCAAGCTGCACAGCCAGAGCCCAGCACGGGGTTACAGCAACACCGC
CAGCCCCGGACTCCCCGAGGAGCCCTCGTGCTACGGCTGAAATTCCTCAATGATTGAGCAGGTGGC
CAGGGCCTGGCCCCACGACACCATTTGGCTCCTTGAAAAGGACCCAGTTTCCCGGCCGGAACAGCAGGTG
CGACTCATCTACCAAGGGCAGCTGCTAGGCGACGACACCCAGACCCTGGGCAGCCTTCACTCCCTCCCA
ACTGCGTTCTCCACTGCCACGTGTCCACGAGAGTCGGTCCCCAAATCCCCCTGCCGCGGGGTCGA
GCCCCGCCCTCCGGGCTGGAATCGGCAGCCTGCTGCTGCCCTGCTGCTCCTGCTGTTGCTGCTGCTC
TGGTACTGCCAGATCCAGTACCGGCCCTTTTCCCCCTGACCGCCACTCTGGGCCTGGCCGGCTTCAACC
TGCTCCTCAGTCTCCTGGCCTTTGCCATGTACCGCCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



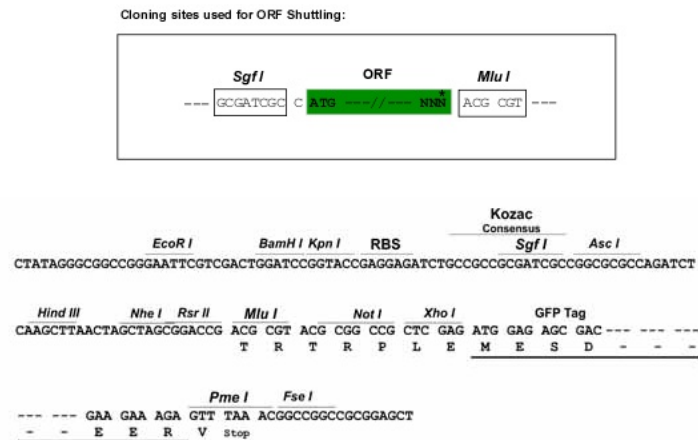
Protein Sequence: >RG207700 representing NM_031434
 Red=Cloning site Green=Tags(s)

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGDPLPQPSGTPTPSQPSAAMAATDSMRGEAPGAE
 TPSLRHRGQAAQPEPSTGFTATPPADSPQEPLVRLKFLNDSEQVARAWPHDTIGSLKRTQFPGREQQV
 RLIYQGQLLGDDTQTLGSLHLPNCVLHCHVSTRVGPPNPPCPPGSEPGSGLEIGSLLLPLLLLLLLLL
 WYQIQYRPFPLTATLGLAGFTLLLSLLAFAMYRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031434

ORF Size: 738 bp

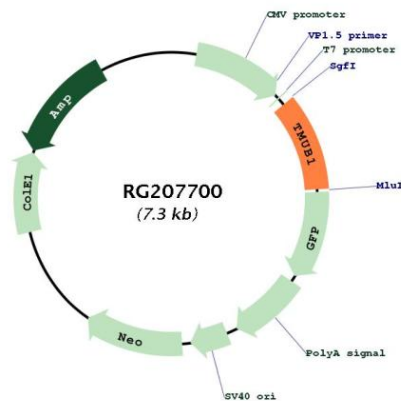
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_031434.4</u>
RefSeq Size:	1494 bp
RefSeq ORF:	741 bp
Locus ID:	83590
UniProt ID:	<u>Q9BVT8</u>
Cytogenetics:	7q36.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Involved in sterol-regulated ubiquitination and degradation of HMG-CoA reductase HMGCR (PubMed:21343306). Involved in positive regulation of AMPA-selective glutamate receptor GRIA2 recycling to the cell surface (By similarity). Acts as negative regulator of hepatocyte growth during regeneration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207700