

Product datasheet for **RG209506**

TMUB2 (NM_177441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMUB2
Synonyms:	FP2653
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG209506 representing NM_177441
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTCTCTGATGTCAACCTCATTGAGGGTGTGGTAATGAGGTGATGGTGGTGGCAGGTGTGGTGG
TGCTGATTCTAGCCTTGGTCTAGCTTGGCTCTCTACCTACGTAGCAGACAGCGGTAGCAACCAGCTCCT
GGGCGCTATTGTGTCAGCAGGCGACATCCGTCCTCCACCTGGGGCATGTGGACCACCTGGTGGCAGGC
CAAGGCAACCCGAGCCAATGAATCCCCATCCATCAGAGGGTAATGATGAGAAGGCTGAAGAGGCGG
GTGAAGGTCGGGGAGACTCCACTGGGGAGGCTGGAGCTGGGGGTGGTGTGAGCCAGCCTTGAGCATCT
CCTTGACATCCAAGGCTGCCCAAAGACAAGCAGGTGCAGGCAGCAGCAGTCCAGAGGCCCTGAGA
TCTGAGGATAGCACCTGCCTCCCTCCAGCCCTGGCCTCATCACTGTGCGGCTCAAATTCCTCAATGATA
CCGAGGAGCTGGCTGTGGCTAGGCCAGAGGATACCGTGGGTGCCCTGAAGAGCAAATACTTCCTGGACA
AGAAAGCCAGATGAACTGATCTACCAGGGCCGCTGCTACAAGACCCAGCCCCGACACTGCCTTCTG
AACATTACGACAATGTGTGATTCACTGCCACCGCTACCCCCAGGGTCAGCTGTTCCAGGCCCTCAG
CCTCCTTGGCCCCCTCGGCACTGAGCCACCCAGCCTTGGTGTCAATGTGGGCAGCCTCATGGTGCCTGT
CTTTGGTGTCTGTTGGGTGTGGTCTGGTACTTCCGAATCAATTACCGCAATTCTTCACAGCACCTGCC
ACTGTCTCCCTGGTGGGAGTCACCGTCTTCTCAGCTTCTAGTATTGGGATGTATGGACGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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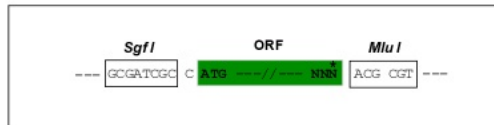
MELSDVTLEIEGVGNEVMVAVGVVVLILALVLAWLSTYVADSGSNQLLGAIVSAGDTSVLHLGHVDHLVAG
QGNPEPTELPHPSEGNDKAEAEAGEGRDSTGEAGAGGGVEPSLEHLLDIQGLPKRQAGAGSSSPEAPLR
SEDSTCLPPSPGLITVRLKFLNDTEELAVARPEDTVGALKSKYFPGQESQMKLIYQGRLLQDPARTLRSL
NITDNCVIHCHRSPGPSAVGPSASLAPSATEPPSLGVNVGSLMVPVFVLLGVVWYFRINRQFFFTAPA
TVSLVGVTVFFSFLVFGMYGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_177441

ORF Size: 903 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: [NM_177441.4](#)

RefSeq Size: 2443 bp

RefSeq ORF: 906 bp

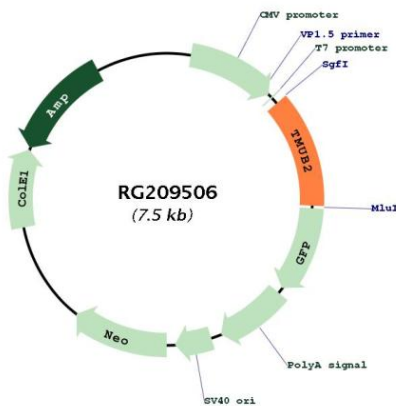
Locus ID: 79089

UniProt ID: [Q7IRG4](#)

Cytogenetics: 17q21.31

Protein Families: Druggable Genome, Transmembrane

Product images:



Circular map for RG209506