

Product datasheet for **RG204417**

Tropomodulin 3 (TMOD3) (NM_014547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Tropomodulin 3
Synonyms:	UTMOD
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204417 representing NM_014547
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCACTGCCATTCCGTAAGGACTTAGAAAAGTACAAAGACCTTGATGAAGATGAGCTCCTTGGGAATC
TGTCAGAAAACAGAACTGAAACAACCTGGAACTGTTTTGGATGATCTTGACCCCGAGAATGCCCTTCTGCC
TGCAGGGTTCCGGCAGAAGAACCAGACATCAAAGTCCACCACAGGGCCATTGATAGAGAGCATCTCCTT
TCATATCTGGAGAAAGAAGCATTGGAGCATAAAGACAGGGAAGACTATGTGCCCTACACTGGAGAAAAA
AAGGGAAAAATTTTATCCCCAAACAGAAACCTGTACAGACTTTTACAGAAGAAAAAGTGTCTCTTGATCC
AGAATTAGAAGAAGCTTTGACAAGTGCTTCTGATACAGAATTGTGTGACCTCGCAGCAATTCTTGGGATG
CACAATTTGATAACGAATACAAAGTTCTGTAATATAATGGGAAGTAGTAATGGTGTGACCAAGAACATT
TTTCAAATGTGGTCAAAGGTGAAAAGATTCTCCGGTATTTGATGAGCCACCAATCCAACCAATGTAGA
AGAGAGTTTGAAGAGAACTAAAGAAAACGATGCTCATCTTGTTGAAGTTAATTTGAATAATATAAAGAAT
ATCCCAATTCACCCCTAAAAGATTTTGCAAAGGCTTTGGAACCAACACACATGTGAAATGTTTCAGTC
TTGCAGCCACCCGGAGCAATGACCCTGTTGCTACTGCTTTTGCAAGAAATGCTGAAAGTGAACAAAACCTT
GAAGAGCTTAAATGTGGAGTCCAACCTTATCACGGGAGTTGGGATTCTGGCACTGATTGATGCGTTAAGA
GATAATGAAACCCCTGGCAGAGCTCAAGATTGACAATCAGAGGCAGCAGTTGGGGACAGCTGTAGAATTGG
AAATGGCCAAGATGCTTGAGGAAAAACAAATATCCTTAAATTTGGATATCAGTTTACACAGCAGGGACC
ACGAACCAGAGCAGCTAATGCTATAACAAAAACAATGACTTAGTCGTAAGAGACGAGTTGAAGGAGAT
CACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



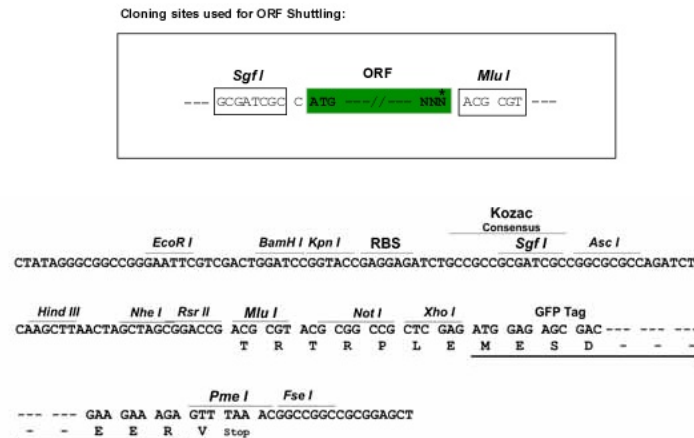
Protein Sequence: >RG204417 representing NM_014547
Red=Cloning site Green=Tags(s)

MALPFRKDLEKYKDLDEDELLGNLSETELKQLETVLDDLDPENALLPAGFRQKNQTSKSTTGPFDRHLL
SYLEKEALEHKDREDYVPYTGEKKGKIFIPKQKPVQTFTEEKVSLDPELEEALTSASDTCLDLAAILGM
HNLITNTKFCNIMGSSNGVDQEHFSNVVKGKILPVFDEPPNPTNVEESLKRTKENDAHLEVNLNINIKN
IPIPTLKDFAKALETNTHVKCFLAATRSNDPVATAFAEMLKVNKTLKSLNVESNFITGVGILALIDALR
DNETLAELKIDNQRLGTAVELEMAKMLEENTNILKFGYQFTQQGPRTRAANAITKNNDLVRKRRVEGD
HQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014547

ORF Size: 1056 bp

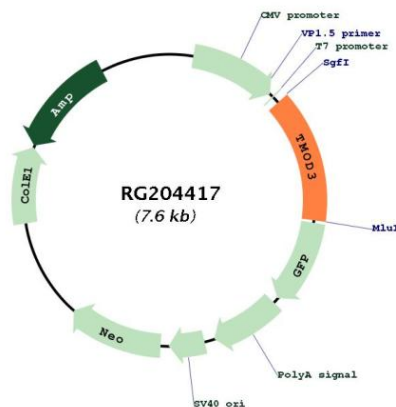
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_014547.5</u>
RefSeq Size:	2130 bp
RefSeq ORF:	1059 bp
Locus ID:	29766
UniProt ID:	<u>Q9NYL9</u>
Cytogenetics:	15q21.2
Domains:	Tropomodulin
Gene Summary:	Blocks the elongation and depolymerization of the actin filaments at the pointed end. The Tmod/TM complex contributes to the formation of the short actin protofilament, which in turn defines the geometry of the membrane skeleton (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204417