

Product datasheet for **RG204673**

Tropomodulin 4 (TMOD4) (NM_013353) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomodulin 4 (TMOD4) (NM_013353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tropomodulin 4
Synonyms:	SK-TMOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204673 representing NM_013353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATCATATCAGAAGGAAGTGGAGAAATACAGAGACATAGATGAAGATGAGATCCTAAGGACCTTGA
GCCCCGAGGAGCTAGAGCAGCTGGACTGCGAACTACAGGAGATGGATCCTGAGAACATGCTCCTGCCAGC
TGGACTAAGACAACGTGACCAGACAAAGAAGAGCCCAACGGGGCCACTGGACCGAGAAGCCCTTTTGCAG
TACTTGGAGCAACAGGCACTAGAAGTCAAAGAGCGTGATGACTTGGTGCCTTCACAGGCGAGAAGAAGG
GGAACCCCTATATTCAGCCCAAGAGGGAAATCCCAGCAGAGGAGCAGATCACCTGGAGCCTGAGCTGGA
GGAGGCACTGGCAGATGCCACAGATGCTGAAATGTGTGACATTGCAGCAATTCTGGACATGTACACACTG
ATGAGTAACAAGCAATACTATGATGCCCTCTGCACTGGAGAAATCTGCAACACTGAAGGCATTAGCAGTG
TGGTACAGCCTGACAAGTATAAGCCAGTGCCGGATGAACCCCAATCCCACAAACATTGAGGAGATACT
AAAGAGGGTCCGAAGCAATGACAAGGAGCTGGAGGAGGTGAACCTGAATAATATACAGGACATCCCAATA
CCCATGCTAAGTGAGCTGTGTGAGGCAATGAAGGCAATACCTATGTGCGGAGCTTCAGTCTGGTAGCCA
CGAGGAGTGGTGACCCCATGCCAATGCAGTGGCTGACATGTTGCGTGAGAATCGTAGCCTCCAGAGCCT
AAACATCGAATCCAATTCATTAGCAGCACAGGACTCATGGCTGTGCTGAAGGCAGTTCGGGAAAATGCC
ACACTCACTGAGCTCCGTGTAGACAATCAGCGCCAGTGGCCTGGTGATGCAGTGGAGATGGAGATGGCCA
CCGTGCTAGAGCAGCGTCCCTCTATTGTCCGCTTTGGCTACCACTTTACACAGCAGGGGCCACGAGCTCG
GGCAGCCAGGCCATGACCCGAAACAATGAACTACGTCGCCAGCAAAAGAAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204673 representing NM_013353
 Red=Cloning site Green=Tags(s)

MSSYQKELEKYRDIIDEILRTLSPREEQLDCELDQEMDPENMLLPAGLRQRDQTKKSPTGPLDREALQ
 YLEQQALEVKERDDLVPFTGEKKGKPYIQPKREIPAAEQITLEPELEEALAHATDAEMCDIAAILDMYTL
 MSNKQYYDALCSGEICNTEGISSVVQPDYKYPVDEPPNPTNIEEILKRVRSNDKEEEVNLNNIQDIPI
 PMLSELCEAMKANTYVRSFSLVATRSGDPIANAVADMLRENRLQSLNIESNFISSGLMAVLKAVRENA
 TLTELVDNQRPQWPGDAVEMEMATVLEQRPISIVRFGYHFTQQGPRARAAQAMTRNNELRRQKKR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013353

ORF Size: 1035 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_013353.1](#), [NP_037485.1](#)

RefSeq Size: 1235 bp

RefSeq ORF: 1038 bp

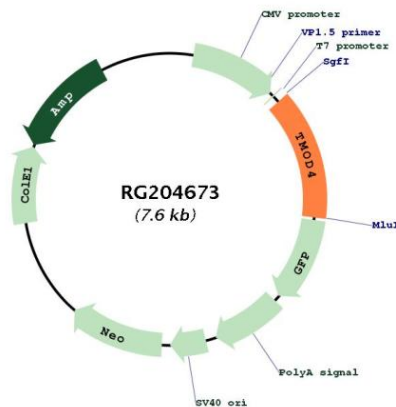
Locus ID: 29765

UniProt ID: [Q9NZQ9](#)

Cytogenetics: 1q21.3

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204673