

## Product datasheet for **MG205331**

### Tmod2 (NM\_001038710) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmod2 (NM_001038710) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmod2
Synonyms:	N-Tmod; NTMOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205331 representing NM_001038710 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTCCCCTTTCAAAAAGGGCTGGAGAAATACAAGAACATCGACGAAGACGAGCTTCTTGCCAAAC  
TCTCAGAAAGAGGAACTGAAACAGTTGGAAAATGTTCTAGATGACCTAGATCCCGAGAGTGCAACGCTACC  
TGCTGGATTCCGACAGAAAGACCAGACCCAGAAAGCAGCCACTGGCCATTTGACCGAGAACACCTGCTC  
ATGTACCTGGAGAAAGAGGCTTTGGAACAGAAGGACAGGGAGGACTTTGTACCCTTCACAGGAGAAAAGA  
AAGGGAGAGTCTTTATCCCAAGGAAAAGCCTGTAGAAACTCGGAAAGAAGAGAAAGTGACCTGGACCC  
AGAACTGGAGGAAGCCTTGCCAGTGCCTCAGACACTGAACTCTACGACCTTGCAGCTGTCTCGGAGTC  
CACAATTTGCTCAACAATCCGAAGTTTGTGAAGAGACGACCAACGGCGAAGGTGCAAGGGGCCTGTGA  
GGAATGTCGTGAAAGGTGAAAAGGCCAAGCCAGTATTTGAGGAGCCACCGAACCCACAAATGTGGAGGC  
AAGCCTGCAGCAGATGAAGGCCAACGACCCAGCCTGCAGGAGGTCAACCTCAACAACATTAAGAACATT  
CCAATTCCAACCTGAAGGAATTTGCAAAGTCTCTGGAGACCAACACCCATGTGAAGAAGTTCAGCCTGG  
CTGCAACCCGACGCAATGACCCTGTGGCCCTTGCCCTTTGCAGAGATGCTGAAAGTCAACAAGACCTTGAA  
AAGTCTAAACGTAGAGTCCAATTTATCACTGGCACTGGAATCCTGGCCCTGGTGAAGCGCTGCGGGAG  
AATGACACCTTGACGGAGATCAAGATTGACAACCAGAGGCAGTGGGAACAGCTGTGGAGATGGAGA  
TCGCCAGATGCTGGAGGAGAAGCAAGGATCCTCAAGTTTGGGTACCAGTTTACCAAGCAAGGGCCAGC  
GACAAGAGTGGCAGCTGCCATCACAAAAATAATGACCTGGTTGAAAGAAGAGAGTTGAAGGAGACAGG  
AGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205331 representing NM\_001038710  
 Red=Cloning site Green=Tags(s)

```
MALPFQKGLEKYKNIDEDELLGKLSSEELKQLENVLDDLDPE SATLPAGFRQKDQTQKAATGPFDRHLL
MYLEKEALEQKDREDFVPFTGEKKGRVFIPEKPKVETRKEEKVTLDPLEEEALASASDTELYDLAAVLGV
HNLLNNPKFDEETTNGEGRKGPVRNVVKGEKAKPVFEPPNPTNVEASLQMKANDPSLQEVNLNINIKNI
PIPTLKEFAKSLETNTHVKKFSLAATRSNDPVALAFAEMLKVNKTLKSLNVE SNFITGTGILALVEALRE
NDTLTEIKIDNQ RQLGTAVEMEIAQMLEENSRILKFGYQFTKQGP RTRVAAAITKNNDLVRKKRVEGDR
R
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001038710

**ORF Size:** 1053 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.

**RefSeq:** [NM\\_001038710.1](#)

**RefSeq Size:** 9957 bp

**RefSeq ORF:** 1056 bp

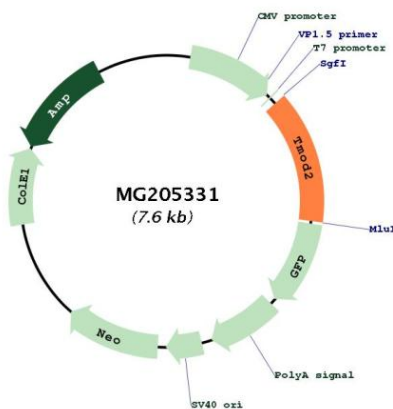
**Locus ID:** 50876

**UniProt ID:** [Q9JJK7](#)

**Cytogenetics:** 9 42.31 cM

**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 MG205331