

## Product datasheet for **RG209053**

### Tropomodulin 2 (TMOD2) (NM\_014548) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Tropomodulin 2 (TMOD2) (NM_014548) Human Tagged ORF Clone                   |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Tropomodulin 2                                                              |
| Synonyms:                 | N-TMOD; NTMOD                                                               |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG209053 representing NM_014548<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCACTCCCCTTTCAAAAAGAGCTGGAGAAATACAAGAACATTGATGAAGATGAGCTTCTTGCCAAAC  
 TCTCAGAAGAGGAACTGAAACAGTTGGAAAATGTTCTAGATGACCTAGATCCTGAGAGTGCCATGCTGCC  
 AGCTGGATTTTCGACAGAAAGACCAGACACAGAAGGCAGCCACCGCCCTTTGACCGCGAGCACCTCCTC  
 ATGTACCTGGAGAAGGAGGCTTTGGAACAGAAAGACAGAGAGGACTTTGTGCCCTTCACTGGAGAAAAGA  
 AAGGGAGAGTCTTTATCCCTAAAGAAAAGCCTATAGAACTCGTAAAGAAGAAAAAGTGACCTTGACCC  
 AGAACTGGAAGAAGCTTTGGCCAGTGCCTCTGACACCGAACTCTATGATCTTGCAGCTGTCTTGGAGTA  
 CACAATTTGCTCAACAATCCAAAGTTTCGATGAAGAAACAGCCAACAATAAAGGTGGCAAAGGACCTGTCA  
 GAAATGTTGTCAAAGGTGAAAAAGTAAAGCCAGTATTTGAGGAACCAACAAATCCACAAATGTGGAAT  
 AAGCCTGCAGCAGATGAAAGCCAATGATCCTAGCTTGCAAGAAGTCAACCTCAACAACATTAAGAACATT  
 CCAATTCCAACCTGAGGGAATTTGCAAGGCTCTGGAGACCAACACTCACGTGAAGAAGTTCAGCCTGG  
 CCGCAACTCGCAGCAATGACCTGTGGCCATTGCTTTTGACAGACATGCTGAAAGTAAACAAGACCTTGAC  
 AAGTCTAAACATAGAATCCAATTTTATCACTGGAAGTGGGATCCTGGCCCTGGTAGAGGCACTGAAAGAA  
 AATGACACCTTGACAGAAATCAAGATTGACAACCAGAGGCAGTGGGAACAGCTGTAGAGATTGAAAG  
 TTGCCCAGATGCTGGAGGAGAATTCAGGATCCTCAAGTTTGGATACCAAGTTTACCAAGCAAGGGCCACG  
 AACAAGGGTGGCAGCTGCCATCACAAGAATAATGACCTGGTTCGTAAGAAGAGAGTTGAAGCAGACCGA  
 AGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

**Protein Sequence:** >RG209053 representing NM\_014548  
 Red=Cloning site Green=Tags(s)

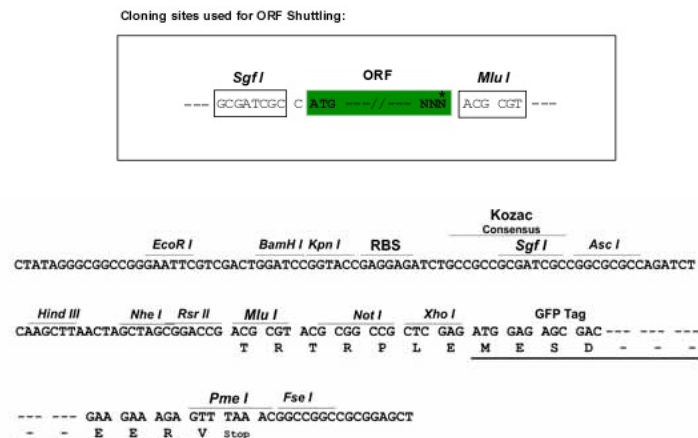
MALPFQKELEKYKNIDEDELLGKLSEELKQLENVLDDLDPE\$AMLPAGFRQKDQTQKAATGPF\$DREHLL  
 MYLEKEALEQKDREDFVPFTGEKKGRVFIPEKEPIETRKEEKVTLDP\$EEALASASDTELYDLAAVLGV  
 HNLLNNPKFDEETANNKGGKGPVRNVVKG\$EKKVPVFEEPPNPTNVEISLQ\$QMKANDPSLQEVN\$LN\$IKNI  
 PIPTLREFAKALETNTHVKKFSLAATRSNDPVAIAFADMLKVNKTLTSLNIESN\$FITGTGILALVEALKE  
 NDTLTEIKIDNQRQQLGTAVEMEIAQMLEEN\$RILKFGYQFTKQGP\$RTRVAAAITKNNDLVRKKRVEADR  
 R

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014548

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_014548.4](#)

**RefSeq Size:** 2945 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 29767

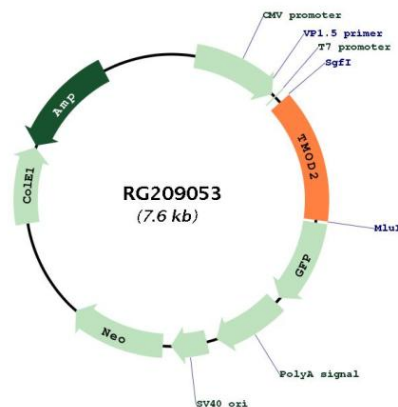
**UniProt ID:** [Q9NZR1](#)

**Cytogenetics:** 15q21.2

**Domains:** Tropomodulin

**Gene Summary:** This gene encodes a neuronal-specific member of the tropomodulin family of actin-regulatory proteins. The encoded protein caps the pointed end of actin filaments preventing both elongation and depolymerization. The capping activity of this protein is dependent on its association with tropomyosin. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Dec 2008]

## Product images:



Circular map for RG209053