

## Product datasheet for **RG200219**

### TMCO1 (NM\_019026) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMCO1 (NM\_019026) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMCO1  
**Synonyms:** HP10122; PCIA3; PNAS-136; TMCC4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200219 representing NM\_019026  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCACTATGTTCCGGACACTCTCCTCATCGTTTTTATCTCTGTGTGCACGGCTCTGCTCGCAGAGG  
GCATAACCTGGGTCCTGGTTTACAGGACAGACAAGTACAAGAGACTGAAGGCAGAAGTGGAAAAACAGAG  
TAAAAAATTGGAAAAGAAGAAGGAAACAATAACAGAGTCAGCTGGTCGACAACAGAAAAAGAAAATAGAG  
AGACAAGAAGAGAAACTGAAGAATAACAACAGAGATCTATCAATGGTTCCAATGAAATCCATGTTTGCTA  
TTGGCTTTTGTCTTACTGCCCTAATGGGAATGTTCAATCCATATTTGATGGTAGAGTGGTGGCAAAGCT  
TCCTTTTACCCCTCTTTCTTACATCCAAGGACTGTCTCATCGAAATCTGCTGGGAGATGACACCACAGAC  
TGTTCCCTTCATTTTCTGTATATTTCTGTACTATGTCGATTCGACAGAACATTCAGAAGATTCTCGGCC  
TTGCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTTCTTGGCCACCACCTCCTTCTGGGAAGTT  
CTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200219 representing NM\_019026  
Red=Cloning site Green=Tags(s)

MSTMFADLLIVFISVCTALLAEGITWLVYRTDKYKRLKAEVEKQSKKLEKKKETITESAGRQKKKIE  
RQEEKLNNDLSMVRMKSMAIGFCFTALMGMFNSIFDGRVVAKLPFTPLSYIQGLSHRLLGDDTTD  
CSFIFLYILCTMSIRQNIQKILGLAPSRAATKQAGGFLGPPPPSGKFS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_019026

**ORF Size:** 564 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_019026.6](#)

RefSeq Size: 1421 bp

RefSeq ORF: 567 bp

Locus ID: 54499

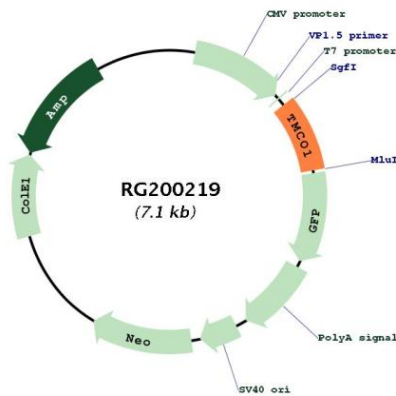
UniProt ID: [Q9UM00](#)

Cytogenetics: 1q24.1

Protein Families: Transmembrane

**Gene Summary:** This locus encodes a transmembrane protein. Mutations at this locus have been associated with craniofacial dysmorphism, skeletal anomalies, and cognitive disability. Mutations at this locus have also been associated with open angle glaucoma blindness. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RG200219