

## Product datasheet for **RG203073**

### **C7orf42 (TMEM248) (NM\_017994) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C7orf42 (TMEM248) (NM\_017994) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMEM248  
**Synonyms:** C7orf42  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203073 representing NM\_017994  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTTCAGCATCAACCCCTGGAGAACCTGAAGGTGTACATCAGCAGTCGGCCTCCCTGGTGGTCTTCA  
 TGATCAGCGTAAGCGCCATGGCCATAGCTTCTGACCCCTGGGCTACTTCTTCAAATCAAGGAGATTAA  
 ATCCCCAGAAATGGCAGAGGATTGGAATACTTTCTGCTACGGTTCAATGATTTGGACTTGTGTATCA  
 GAGAATGAAACCCTCAAGCATCTCACAACGACACCACAACCTCCGAAAAGTACAATGACCAGCGGGCAGG  
 CCCGAGCTTCCACCCAGTCCCCCAGGCCCTGGAGGACTCGGGCCCGGTGAATATCTCAGTCTCAATCAC  
 CCTAACCCCTGGACCCACTGAAACCCTTCGGAGGGTATTCCCGAACGTCACCCATCTGTACTCAACCATC  
 TTAGGGCATCAGATTGGACTTTCAGGCAGGGAAGCCACGAGGAGATAAACATCACCTTACCCTGCCTA  
 CAGCGTGGAGCTCAGATGACTGCGCCCTCCACGGTCACTGTGAGCAGGTGGTATTACAGCCTGCATGAC  
 CCTCACGGCCAGCCCTGGGGTGTCCCCGTCACTGTACAGCCACCGCACTGTGTTCTGACACGTACAGC  
 AACGCCACGCTCTGGTACAAGATCTTCAACTGCCAGAGATGCCAACACAAAATACGCCAAGATTACA  
 ATCCTTCTGGTGTATAAGGGGGCCATTGGAAAAGTCTATCATGCTTTAAATCCAAGCTTACAGTGAT  
 GTTCCAGATGATGACCGTTTCAATAAAATTTGCATCTCATGCACACCAGTTACTTCTCTTTGTGATG  
 GTGATAACAATGTTTTGCTATGCTGTTATCAAGGGCAGACCTAGCAAATTGCGTCAGAGCAATCCTGAAT  
 TTTGTCGCGAGAAGGTGGCTTTGGCTGAAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203073 representing NM\_017994  
Red=Cloning site Green=Tags(s)

MFSINPLENLKVYISSRPLVVFMISSVSAMAI AFLTLGYFFKIKEIKSPEMAEDWNTFLLRFNDLDCVSENETLKHLTNDTTTPESTMTSGQARASTQSPQALEDSGPVNI SVSITLTDPLKPFGGYSRNVTHLYSTILGHQIGLSGREAEHEEINITFTLPTAWSSDDCALHGHCEQVVFACMTLTASPGVFPVTVQPPHCVPDTYSNATLWYKIFTTARDANTKYAQDYNPFWCYKGAIGKVYHALNPKLTVIVPDDDRSLINLHLMHTSYFLFVMVITMFCYAVIKGRPSKLRQSNPEFCPEKVALAEA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

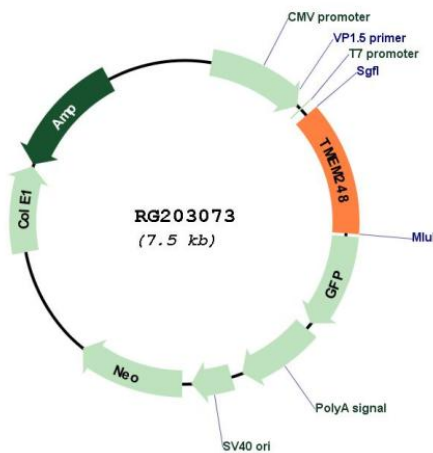
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_017994

**ORF Size:** 942 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\\_017994.5](#)

**RefSeq Size:** 4238 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 55069

**UniProt ID:** [Q9NWD8](#)

**Cytogenetics:** 7q11.21

**Protein Families:** Transmembrane