

## Product datasheet for **MG203846**

### **Tmem53 (BC020121) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem53 (BC020121) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tmem53  
**Synonyms:** 1110038M16Rik; 1500001P22Rik; 1700012A05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203846 representing BC020121  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCTCGGCCGAGCTGGATTACAGCATCGAGATCCCGGATCAGCCCTGCTGGAGCCAGAGTATGGAGG  
 GGGATTGGGAAGAGAACAGACAAGGTGGGAAGGAAGCTGGGAAGCAACAGCCTGTGGTGATTCTCTGGG  
 CTGGGGAGGCTGCAGGGACAAGAACCTGGCCAAGTATAGTGCTATCTACCACAAAAGGGCTGCATTGTG  
 ATCCGATACACGGCCCCCTGGCACATGGTCTTCTCTCCGAGTCCTTGGGCATCCCTTCACTTCGCGTGA  
 TAGCCCAGAAACTGCTGGAGCTCCTCTTTGACTATGAGATTGAGCGGGAGCCTCTGCTCTCCACGTCTT  
 CAGCAATGCCGGCGTCATGCTCTACCGCTACGTGCTGGAGCTCCTACAGCCACCAGCGCTTCCGCCAT  
 TTGCATGTGGTGGGCACCATCTTTGACAGTGGTCTGGTATAGCAACCTGATAGGGGCCCTGAGGGCTC  
 TGGCAACCATCCTGGAGCGCCGACCTGCGGTGCTGCGCCTGTTGCTCCTGGCAGCGTTTGCCTGGTGGT  
 GATCCTGTTTCACTTCTGCTTGTCCATTCACTGCCCTCTTCCACCCACTTCTACGACAGGCTGCAG  
 GACTCAGGCTCCTGCTGGCCTGAACTCTACCTACTCTAGAGCTGATAAGGTGGTCTCGGCCAGGGATG  
 TGAACGTATGGTAGAGGCACGCTGGCTCACCAGGTGATGGTGGTGGAGTGGACTTTGTGTCACTGCG  
 GCATGTGACGCCACCTCCGAGACTATCCTACTTACTATAACAAGTCTGTGTGTTGACTTCATGCATAATTGT  
 GTCCAATGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203846 representing BC020121  
Red=Cloning site Green=Tags(s)

MASAELDYSIEIPDQPCWSQSMEGDWEENRQGGKEAGKQQPVVILLGWGGCRDKNLAKYSAIYHKRGCIV  
 IRYTAPWHMVFFSESLGIPSLRVIAQKLELLFDYEIEREPLLFHVFSNAGVMLYRYVLELLQTHQRFRRH  
 LHVVGTFIDSGPGDSNLIGALRALATILERRPAVLRLLLLAAAFALVVILFHFLLAPFTALFHTHFYDRLQ  
 DSGSCWPELYLYSRADKVVSRDVERMVEARLAHQVMVRGVDFVSSAHVSHLRDYPYYTSLCVDFFMHNC  
 VQC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC020121

**ORF Size:** 851 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:** BC020121, AAH20121

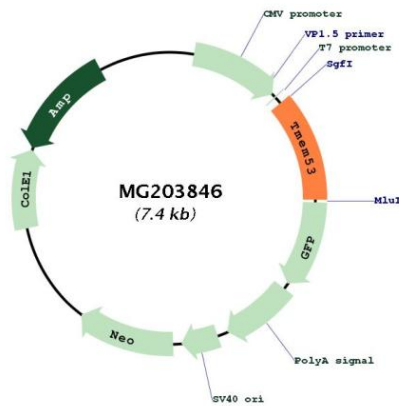
**RefSeq Size:** 936 bp

**RefSeq ORF:** 851 bp

**Locus ID:** 68777

**Cytogenetics:** 4 D1

**Product images:**



Circular map for MG203846