

## Product datasheet for **MG201673**

### Cmtm6 (NM\_026036) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cmtm6 (NM\_026036) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cmtm6  
**Synonyms:** 2810051A14Rik; AA536733; Cklfsf6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201673 representing NM\_026036  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGAACGGAGCGGTCTACAGTCCCACCACCGAGGCGGCCCGGGCACTGGCAGGGGTGCGCGCAGCG  
 GCCTGGCCGCCTACTTCGTCCTGGGCAGGCTCCCTTGGCATCGGCGCATCCTCAAAGGCTTGACAGTGT  
 GCTGTCTCTCTGGCCTTCATCTGTGAAGAGGTTGTGTCCGAGTGTGGTTGTGTGGAGGCTCTACTTC  
 TTTGAATTTGTGAGCTGTAGCGCTTTCTCCTGAGCCTCCTCCTGCTGATCGTGTACTGCACCCAGTGC  
 ACGACAGAGTGGATACTGAAAAGTCAAGTCATCGGATTTTACATCACCTGGGAAGTGGGTGTGTGTT  
 CCTGCTGGCATCTATCATTTTTGTCTCCACCCATTCTGGGACCTCAGCTGAAATTGCTGCAATTGTGTT  
 GGCTTCTTGCAAGCTCCATGTTCTACTGAGCTTCGTTGTCATGCTGTGTGAGAAGCTGCGGGAGAGCC  
 CGCTGAGAAAGCCGAGAACAAACGCAAAGGTGGAAGCCCTCACCGAACCACTGAACGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201673 representing NM\_026036  
 Red=Cloning site Green=Tags(s)

MENGAVYSPTTEAAPGTGRGARSGLAAYFVLGRLPWRRILKGLQLLLSLLAFICEEVVSECGLCGGLYF  
 FEFVSCSAFLLSLLLIYVCTPVHDRVDTGKVKSSDFYITLGTGCVFLLASIIIFVSTHSGTSAEIAAIVF  
 GFLASSMFLLDVVMLEKLRRESPLRKPENNAKVEALTEPLNA

**TRTRPLE** - GFP Tag - V

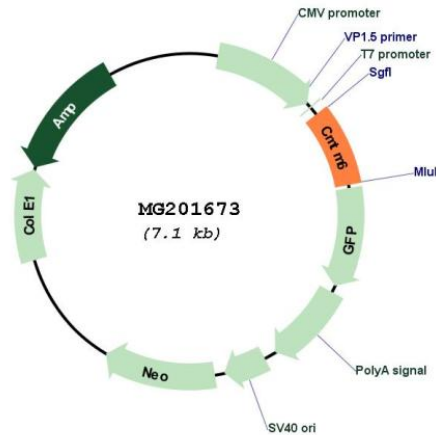
**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_026036

ORF Size: 549 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_026036.3</a></u>
<b>RefSeq Size:</b>	3356 bp
<b>RefSeq ORF:</b>	552 bp
<b>Locus ID:</b>	67213
<b>UniProt ID:</b>	<u><a href="#">Q9CZ69</a></u>
<b>Cytogenetics:</b>	9 F3
<b>Gene Summary:</b>	Master regulator of recycling and plasma membrane expression of PD-L1/CD274, an immune inhibitory ligand critical for immune tolerance to self and antitumor immunity. Associates with both constitutive and IFNG-induced PD-L1/CD274 at recycling endosomes, where it protects PD-L1/CD274 from being targeted for lysosomal degradation, likely by preventing its ubiquitination. May stabilize PD-L1/CD274 expression on antigen presenting cells and potentiates inhibitory signaling by PDCD1/CD279, its receptor on T-cells, ultimately triggering T-cell anergy.[UniProtKB/Swiss-Prot Function]