

## Product datasheet for **MG200799**

### Cyb5a (NM\_025797) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyb5a (NM\_025797) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cyb5a  
**Synonyms:** 0610009N12Rik; Cyb5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200799 representing NM\_025797  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGGCAGTCAGACAAGGATGTGAAGTACTACACCCTGGAAGAGATTCAGAAGCACAAAGACAGCA  
AGAGCACCTGGGTGATCCTGCATCATAAGGTGTACGATCTGACCAAGTTTCTCGAAGAGCATCCTGGTGG  
AGAAGAAGTCCTAAGAGAGCAAGCTGGGGGTGATGCTACCGAGAATTTTGAGGACGTCGGGCACTCTACG  
GATGCACGAGAACTGTCCAAAACATACATCATCGGGAACTCCATCCAGATGACAGATCAAAGATAGCCA  
AGCCTTCGGATACTTTATCACTACTGTGGAGTCTAATTCAGTTGGTGGACCAACTGGGTGATCCCAGC  
CATCTCAGCCCTGGCTGTAGCTCTGATGTATCGCCTCTACATGGCAGAAGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200799 representing NM\_025797  
Red=Cloning site Green=Tags(s)

MAGQSDKDVKYITLEEIQKHKDSKSTWVILHKKVYDLTKFLEEHPGGEEVLRQAGGDATENFEDVGHST  
DARELSKTYIIGELHPDDRSKIAPSDTLITTVESNSSWWTNWVIPAISALAVALMYRLYMAED

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

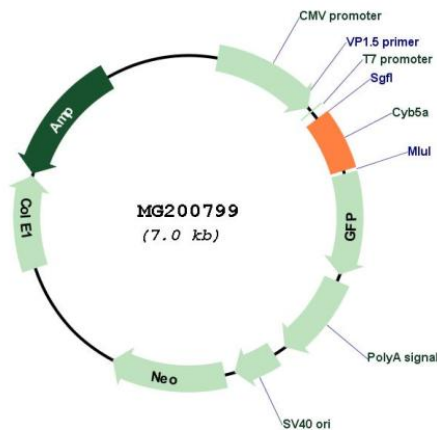


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_025797

ORF Size: 402 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](#)

<b>OTI Annotation:</b>	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>	<a href="#">NM_025797.4</a>
<b>RefSeq Size:</b>	750 bp
<b>RefSeq ORF:</b>	405 bp
<b>Locus ID:</b>	109672
<b>UniProt ID:</b>	<a href="#">P56395</a>
<b>Cytogenetics:</b>	18 57.53 cM
<b>Gene Summary:</b>	Cytochrome b5 is a membrane-bound hemoprotein functioning as an electron carrier for several membrane-bound oxygenases. It is also involved in several steps of the sterol biosynthesis pathway, particularly in the C-5 double bond introduction during the C-5 desaturation.[UniProtKB/Swiss-Prot Function]