

## Product datasheet for **MG201056**

### Mcpt4 (BC026198) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mcpt4 (BC026198) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Mcpt4  
**Synonyms:** MMCP-4, MMCP-4A, MMCP-4B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201056 representing BC026198  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGGCCCTACTATTCTTATGGCACTTCTCTGCCTTCTGGGGCTGGAGCTGAGGAGATTATTGGTG  
 GTGTTGAGTCTAGACCACATTCTCGCCCTTACATGGCCCATCTGGAGATCACCCTGAGAGAGGGTTCAC  
 AGCTACCTGTGGTGGTTTCTCATAACCCGCCAATTTGTGTTGACTGCTGCACACTGTAGTGAAGAGAA  
 ATCACTGTCACCCTTGGAGCTCATGATGTGAGCAAGACAGAATCCACACAGCAGAAGATAAAAGTAGAAA  
 AACAAATCGTTCACCCAAAGTACAATTCTATTCCAATCTCCATGACATCATGTTGCTGAAGCTTCAAAA  
 GAAAGCCAAAGAGACTCCCTCTGTGAATGTAATTCCTCTGCCTCGTCCTTCTGACTTTATCAAGCCGGGG  
 AAGATGTGCCAGCTGCCCCCAAGATGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201056 representing BC026198  
 Red=Cloning site Green=Tags(s)

MQALLFLMALLLPSGAGAEIIGGVESRPHSRPYMAHLEITTEGFTATCGGFLITRQFVLTAHCSGRE  
 ITVTLGAHDVSKTESTQQKIKVEKQIVHPKYNFYNSLHDIMLLKLQKKAKETPSVNVIPRPSDFIKPG  
 KMCQPAPKMI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

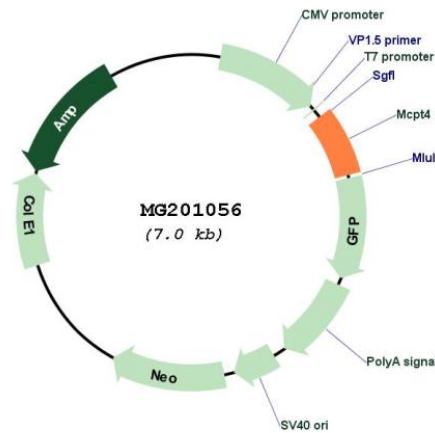


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Cloning Scheme:



Plasmid Map:



ACCN: BC026198

ORF Size: 452 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>BC026198</u> , <u>AAH26198</u>
<b>RefSeq Size:</b>	554 bp
<b>RefSeq ORF:</b>	452 bp
<b>Locus ID:</b>	17227
<b>Cytogenetics:</b>	14 28.19 cM
<b>Gene Summary:</b>	Has chymotrypsin-like activity. Hydrolyzes the amide bonds of synthetic substrates having Tyr and Phe residues at the P1 position. Preferentially hydrolyzes the 'Tyr-4- -Ile-5' bond of angiotensin I and the 'Phe-20- -Ala-21' bond of amyloid beta-protein, and is less active towards the 'Phe-8- -His-9' bond of angiotensin I and the 'Phe-4- -Ala-5' and 'Tyr-10- -Glu-11' bonds of amyloid beta-protein. Involved in thrombin regulation and fibronectin processing. [UniProtKB/Swiss-Prot Function]