

## Product datasheet for **MC208951**

### **Mcpt4 (NM\_010779) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mcpt4 (NM\_010779) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mcpt4  
**Synonyms:** Mcp-4; Mcp4; MMCP-4; MMCP-4A; MMCP-4B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208951 representing NM\_010779  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCAGGCCCTACTATTCCTTATGGCACTTCTCTTGCCTTCTGGGGCTGGAGCTGAGGAGATTATTGGTG  
GTGTTGAGTCTAGACCACATTCTCGCCCTTACATGGCCCATCTGGAGATCACCCTGAGAGAGGGTTCAC  
AGCTACCTGTGGTGGGTTTCTCATAACCCGCCAATTTGTGTTGACTGCTGCACACTGTAGTGAAGAGAA  
ATCACTGTCAACCTTGGAGCTCATGATGTGAGCAAGACAGAATCCACACAGCAGAAGATAAAAGTAGAAA  
AACAAATCGTTACCCAAAGTACAACCTTCTATTCCAATCTCCATGACATCATGTTGCTGAAGCTTAAAA  
GAAAGCCAAAGAGACTCCCTCTGTGAATGTAATTCCTCTGCCTCGCTCTGACTTTATCAAGCCGGGG  
AAGATGTGCCGGGCAGCTGGCTGGGGGCGAACTGGAGTGACAGAACCTACCTCAGATATACTGAGGGAGG  
TGAAACTGAGAATCATGGATAAAGAGGCCGTGAAAACTATTGGCATTACGACTATAACCTCCAGGTCTG  
CGTGGGCAGTCCCAGAAAGAAAAGATCAGCATACAAGGGAGACTCTGGAGGACCTCTACTGTGTCTGGG  
GTGGCCCATGGTATTGTATCTTATGGACGCGGAGATGCAAAGCCCCTGCAGTCTCACCCGAATCTCT  
CATATGTGCCCTGGATTAACAGAGTTATAAAGGGCAAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010779  
**Insert Size:** 741 bp



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**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](#)

**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\\_010779.2](#), [NP\\_034909.2](#)

**RefSeq Size:** 990 bp

**RefSeq ORF:** 741 bp

**Locus ID:** 17227

**UniProt ID:** [P21812](#)

**Cytogenetics:** 14 28.19 cM

**Gene Summary:** 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]