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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC208951 representing NM_010779
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGCCCTACTATTCCTTATGGCACTTCTCTTGCCTTCTGGGGCTGGAGCTGAGGAGATTATTGGTG
GTGTTGAGTCTAGACCACATTCTCGCCCTTACATGGCCCATCTGGAGATCACCACTGAGAGAGGGTTCAC
AGCTACCTGTGGTGGGTTTCTCATAACCCGCCAATTTGTGTTGACTGCTGCACACTGTAGTGGAAGAGAA
ATCACTGTCACCCTTGGAGCTCATGATGTGAGCAAGACAGAATCCACACAGCAGAAGATAAAAGTAGAAA
AACAAATCGTTCACCCAAAGTACAACTTCTATTCCAATCTCCATGACATCATGTTGCTGAAGCTTCAAAA
GAAAGCCAAAGAGACTCCCTCTGTGAATGTAATTCCTCTGCCTCGTCCTTCTGACTTTATCAAGCCGGGG
AAGATGTGCCGGGCAGCTGGCTGGGGGCGAACTGGAGTGACAGAACCTACCTCAGATATACTGAGGGAGG
TGAAACTGAGAATCATGGATAAAGAGGCCTGTAAAAACTATTGGCATTACGACTATAACCTCCAGGTCTG
CGTGGGCAGTCCCAGAAAGAAAAGATCAGCATACAAGGGAGACTCTGGAGGACCTCTACTGTGTGCTGGG
GTGGCCCATGGTATTGTATCTTATGGACGCGGAGATGCAAAGCCCCCTGCAGTCTTCACCCGAATCTCCT
CATATGTGCCCTGGATTAACAGAGTTATAAAGGGCAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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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 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]

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