

Product datasheet for **MG226325**

Mcpt4 (NM_010779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mcpt4 (NM_010779) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mcpt4
Synonyms: Mcp-4; Mcp4; 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: >MG226325 representing NM_010779
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGCCCTACTATTCCTTATGGCACTTCTCTGCCTTCTGGGGCTGGAGCTGAGGAGATTATTGGTG
GTGTTGAGTCTAGACCACATTCTCGCCCTTACATGGCCCATCTGGAGATCACCCTGAGAGAGGGTTCAC
AGCTACCTGTGGTGGTTTCTCATAACCCGCCAATTTGTGTTGACTGCTGCACACTGTAGTGAAGAGAA
ATCACTGTCACCCTTGGAGCTCATGATGTGAGCAAGACAGAATCCACACAGCAGAAGATAAAAGTAGAAA
AACAAATCGTTCACCCAAAGTACAATTCTATTCCAATCTCCATGACATCATGTTGCTGAAGCTTCAAAA
GAAAGCCAAAGAGACTCCCTCTGTGAATGTAATTCCTCTGCCTCGTCCTTCTGACTTTATCAAGCCGGGG
AAGATGTGCCGGGCAGCTGGCTGGGGGCGAACTGGAGTGACAGAACCTACCTCAGATATACTGAGGGAGG
TGAAACTGAGAATCATGGATAAAGAGGCCTGTA AAAACTATTGGCATTACGACTATAACCTCCAGGTCTG
CGTGGGCAGTCCCAGAAAGAAAAGATCAGCATACAAGGGAGACTCTGGAGGACCTCTACTGTGTCTGGG
GTGGCCCATGGTATTGTATCTTATGGACGCGGAGATGCAAAGCCCCTGCAGTCTTACCCGAATCTCT
CATATGTGCCCTGGATTAACAGAGTTATAAAGGGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226325 representing NM_010779
 Red=Cloning site Green=Tags(s)

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MQALLFLMALLLPSGAGAEIIGGVESRPHSRPYMAHLEITTERGFTATCGGFLITRQFVLTAHCSGRE
ITVTLGAHDVSKTESTQQKIKVEKQIVHPKYNFYSNLHDIMLLKLQKKAKETPSVNVIPLEPRPSDFIKPG
KMCRAAGWGRTGVTEPTSDILREVKLRI MDKEACKNYWHYDYNLQVCVGSPRKKRSAYKGDSSGPLL CAG
VAHGIVSYGRGDAKPPAVFTRISSYVVPWINRVIK GK
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010779

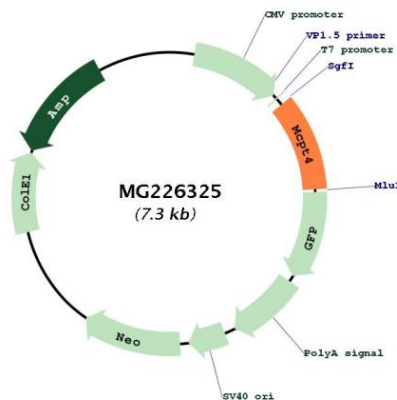
ORF Size: 738 bp

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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]

Product images:


Circular map for MG226325