

Product datasheet for **RR201959**

Mcpt4 (NM_019321) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcpt4 (NM_019321) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcpt4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201959 representing NM_019321 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGCCCTGCTATTCCTGATGGCTCTTCTCTTGCCTTCTGGAGCTGGAGCTGAGGAGATTATCGGTG
 GTGTGGAGTCTATTCCTCACTCCCGCCCTTACATGGCCCTTCTGAAGATCGTCACTGAAGAAGGTCATGT
 GACCTTCTGTGGTGGGTTTCTCATAAGCCTTCAATTTGTGCTGACTGCTGCACACTGTCATGGAAGGGAA
 ATCACTGTCACCCTCGGAGCTCATGACATGAGCAAGAGAGAATCCACACAACAAAAGATAAAAGTTGTAA
 AACAAATCTTTCCTCTAAAGTACAATTTATTTTCCAATTTCCGTGACATCATGTTACTGAAGCTTGAACA
 GAAAGCAGTGTTGACTCCGTCTGTGAATGTAATCCCCCTGCCTCAGTCCTCTGACATTATCAAGCCTGGG
 ACAATGTGCTTGGCAGCTGGATGGGGACAACTGGAGTGAAAGAACCGAACTCAAATACACTGAGGGAGG
 TCATGCTGAGAATCATGGAAATGAAGGCCTGTAAGGACTATAGGCATTATGACAATAGATTCCAGATCTG
 CGTGGGGATTCTCAAATGTTGAAATTAGCATACAAGGGAGACTCTGGAGGACCTCTAGTGTGTCTGGA
 GTGGCCCATGGTATTGTATCTCATGGCCCTGGAAGAGGAATCCCCCTATAATCTTCACCCGAATCTCT
 CATATGTGTCCTGGATTAATAGAGTCATAAGGGGAAATCATATGTGTCCTGGATTAATAGAGTCATAAGG
 GGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RR201959 representing NM_019321
 Red=Cloning site Green=Tags(s)

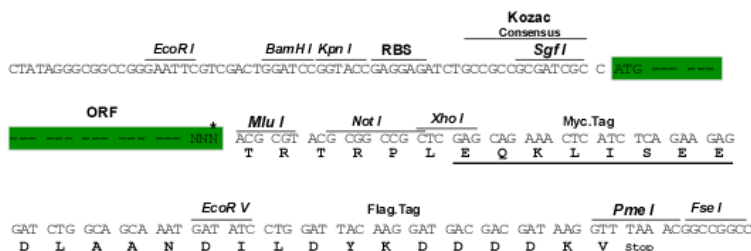
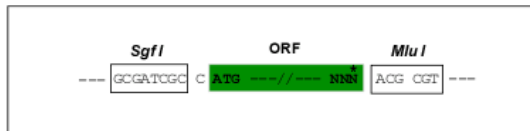
MKALLFLMALLLPSGAGAEIIGGVESIPHSRPMALLKIVTEEGHVTFCGGFLISLQFVLTAACHCHGRE
 ITVTLAGHDMSKRESTQQKIKVVKQIFPLKYNLFSNFRDIMLLKLEQAVGLTPSVNVIPLQSSDIKPG
 TMLCAAGWGQTGVKEPNSTLREVMLRIMEMKACKDYRHYDNRFQICVGIQMKLAYKGDGGPLVCAG
 VAHGIVSHGPRGIPPIIFTRISSYVSWINRVIRGNHMCPLIES*GE

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 019321

ORF Size: 738 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.

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 Size: 943 bp

RefSeq ORF: 741 bp

Locus ID: 54270

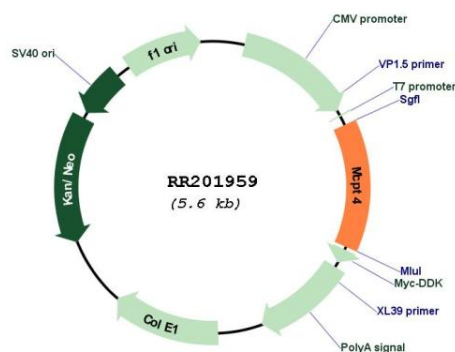
UniProt ID: [P97592](#)

Cytogenetics: 15p13

MW: 27 kDa

Gene Summary: mast cell protease that acts as a beta-chymase; has a strong preference for bulky/aromatic amino acid residues in both the P1 and P2 positions [RGD, Feb 2006]

Product images:



Circular map for RR201959