

Product datasheet for **MC209778**

Cartpt (NM_001081493) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cartpt (NM_001081493) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cartpt
Synonyms: Ca; Cart
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209778 representing NM_001081493
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGGAGAGCTCCCGCTGCGGCTGCTACCCCTCCTGGGCGCCGCCCTGCTGCTACTGCTACCTTTGCTGG
GTGCCCGTGCCAGGAGGACGCCGAGCTGCAGCCCGAGCCCTGGACATCTACTCTGCCGTGGATGATGC
GTCCCACGAGAAGGAGCTGATCGAAGCGTTGCAAGAAGTCTGAAGAAGCTCAAGAGTAAACGCATTCCG
ATCTACGAGAAGAAGTACGGCCAAGTCCCATGTGTGACGCTGGAGAGCAGTGCCGAGTGAGGAAAGGGG
CCAGGATCGGGAAGCTGTGTGACTGTCCCGAGGAACTTCTGCAATTCTTTCCTTTGAAGTGCTGTG
A**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081493

Insert Size: 351 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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_001081493.2](#), [NP_001074962.1](#)

RefSeq Size: 836 bp

RefSeq ORF: 351 bp

Locus ID: 27220

Cytogenetics: 13 D1

Gene Summary: This gene encodes preproprotein isoforms that are processed into multiple biologically active peptides. Expression of this gene is regulated by cocaine and other drugs, and is associated with feeding/appetite and stress response. Mice lacking the encoded protein are predisposed to obesity. Deficiency of the encoded protein in mice results in pancreatic islet dysfunction, impaired insulin secretion and glucose intolerance. Alternative splicing results in multiple transcript variants encoding different isoforms, which are subsequently processed into mature peptides. [provided by RefSeq, Jul 2015]

Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.