

Product datasheet for MR200711

Cartpt (BC056431) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cartpt (BC056431) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cartpt
Synonyms: Cart
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200711 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGCTCCCGCTGCGGCTGCTACCCCTCCTGGGCGCCGCCCTGCTGCTACTGCTACCTTTGCTGG
 GTGCCCGTGCCAGGAGGACGCCGAGCTGCAGCCCGAGCCCTGGACATCTACTCTGCCGTGGATGATGC
 GTCCACGAGAAGGAGCTGCCAAGGCGCAACTTCGGGCTCCCGCGCTATGTTGCAGATCGAAGCGTTG
 CAAGAAGTCTGAAGAAGCTCAAGAGTAAACGCATTCCGATCTACGAGAAGAAGTACGGCCAAGTCCCCA
 TGTGTGACGCTGGAGAGCAGTGCAGTGAGGAAAGGGCCAGGATCGGGAAGCTGTGTGACTGTCCCCG
 AGGAATTCTGCAATTCTTCTCTTGAAGTGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200711 protein sequence
 Red=Cloning site Green=Tags(s)

MESSRLRLPLLLGAALLLLLPLLGARAQEDAELQPRALDIYSAVDDASHEKELPRQLRAPGAMLQIEAL
 QEVLKLLKSKRIPIYEKKGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSNCNSFLKCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: BC056431

ORF Size: 387 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: [BC056431](#), [AAH56431](#)

RefSeq Size: 607 bp

RefSeq ORF: 389 bp

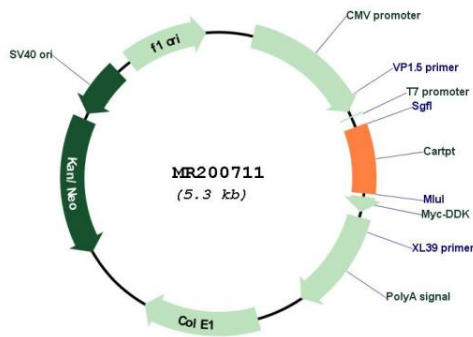
Locus ID: 27220

Cytogenetics: 13 D1

MW: 14.3 kDa

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]

Product images:



Circular map for MR200711