

Product datasheet for **MG221975**

Cartpt (NM_001081493) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cartpt (NM_001081493) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cartpt
Synonyms: Ca; Cart
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221975 representing NM_001081493
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGCTCCCGCTGCGGCTGCTACCCCTCTGGGCGCCGCCCTGCTGCTACTGCTACCTTTGCTGG
GTGCCCGTGCCAGGAGGACGCCGAGCTGCAGCCCCGAGCCCTGGACATCTACTCTGCCGTGGATGATGC
GTCCCACGAGAAGGAGCTGATCGAAGCGTTGCAAGAAGTCCTGAAGAAGCTCAAGAGTAAACGCATTCCG
ATCTACGAGAAGAAGTACGGCCAAGTCCCCATGTGTGACGCTGGAGAGCAGTGCCGAGTGAAGAAAGGGG
CCAGGATCGGGAAGCTGTGTGACTGTCCCCGAGGAACCTCTGCAATTCTTCTCTTGAAGTGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221975 representing NM_001081493
Red=Cloning site Green=Tags(s)
MESSRLRLPLLLGALLLLLPLLGARAQEDAELQPRALDIYSAVDDASHEKELIEALQEVLLKLLKSKRIP
IYEKYGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLLKCL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

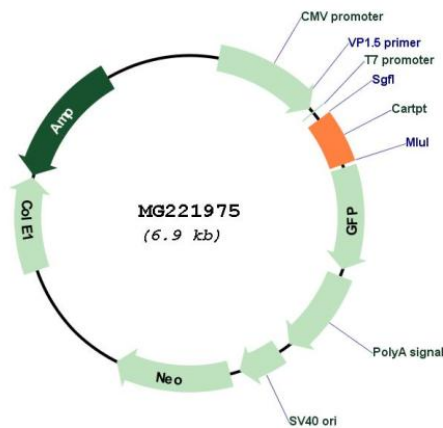


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001081493

ORF Size: 348 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:	<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:	<u>NM_001081493.2</u> , <u>NP_001074962.1</u>
RefSeq Size:	835 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]