

Product datasheet for **RG206552**

CART (CARTPT) (NM_004291) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CART (CARTPT) (NM_004291) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CART
Synonyms: CART
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206552 representing NM_004291
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGCTCCCGCTGAGGCTGCTGCCCTCCTGGCGCCGCCCTGCTGCTGATGCTACCTCTGTTGG
 GTACCCGTGCCAGGAGGACGCCGAGCTCCAGCCCGAGCCCTGGACATCTACTCTGCCGTGGATGATGC
 CTCCCACGAGAAGGAGCTGATCGAAGCGCTGCAAGAAGTCTTGAAGAAGCTCAAGAGTAAACGTGTTCCC
 ATCTATGAGAAGAAGTATGGCCAAGTCCCATGTGTGACGCCGGTGAAGCAGTGTGCAGTGAGGAAAGGGG
 CAAGGATCGGAAGCTGTGTGACTGTCCCGAGGAACCTCCTGCAATTCCTCCTCCTGAAGTGCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206552 representing NM_004291
 Red=Cloning site Green=Tags(s)
 MESSRVRLPLLLGALLLMLPLLGTRAQEDAELQPRALDIYSAVDDASHEKELIEALQEVLLKLLKSKRVP
 IYEKKYQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLLKCL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004291

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:

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.

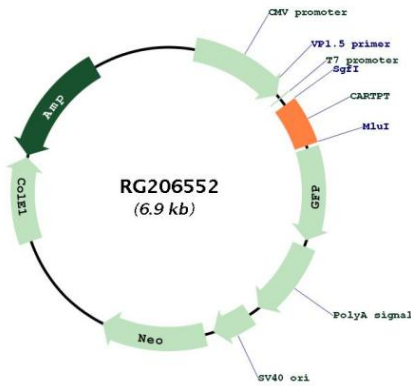
RefSeq: [NM_004291.4](#)

RefSeq Size: 908 bp

RefSeq ORF: 351 bp

Locus ID: 9607
UniProt ID: [Q16568](#)
Cytogenetics: 5q13.2
Protein Families: Secreted Protein
Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate multiple biologically active peptides. These peptides play a role in appetite, energy balance, maintenance of body weight, reward and addiction, and the stress response. Expression of a similar gene transcript in rodents is upregulated following administration of cocaine and amphetamine. Mutations in this gene are associated with susceptibility to obesity in humans. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG206552