

## Product datasheet for **RR203577**

### **Cpt2 (NM\_012930) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpt2 (NM_012930) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpt2
Synonyms:	CPTII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR203577 representing NM\_012930  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATGCCCGCCTGCTGTTTCGTGCCTGGCCCCGCTGCCCTCGCTTGTCTGGGAGCCCCTAGTAGGC  
CCTTAAGTGCTGTCTCGGGGCCGACGATTATCTGCAGCACAGCATCGTGCCACCATGCACTACCAGGA  
CAGCCTGCCAGGCTGCCTATCCCTAAACTTGAAGACACCATGAAGAGATACCTCAATGCACAGAAGCCT  
CTCTTGATGACAGCCAGTTTCAGGAGAACAAGCGTTGTGAAGAATTTTGGAGCTGGCGTTGGGAAGG  
AGCTGCATGCCACCTGCTTGTCTCAGGATAAGCAGAATAAGCACACCAGCTACATCTCAGGCCCTGGTT  
CGATATGTATTTAACTGCTCGAGACTCTATCGTTTTAACTTTAATCCATTTATGGCATTCAATCCGGAC  
CCAAAGTCTGAGTATAATGACCAGCTTACCAGGGCAACCAACTTGACTGTTTCTGCAGTCCGGTTTCTGA  
AGACACTTCAGGCTGGCCTTTTGAACCCAGAAGTGTCCACTTGAACCCTTCCAAAAGTGACACAGACGC  
CTTCAAAGACTCATTGCTTTTGTCTCCCTCTCTGTCTGGTATGGAGCTACCTGGTCAACGCATAT  
CCCTGGATATGCCAGTATTTCCGGCTTTTCAATCAACTCGTATACCCAGACCAATCGTGATGAAC  
TCTTTACTGACACCAAGGCTAGACACCTCCTGGTCCCTAAGAAAAGGACATTTCTATGTCTTTGATGTCT  
CGATCAAGATGGGAACATTGTGAATCCCTTAGAGATTCAGGCACATCTAAAGTACATTCTCTCAGACAGC  
AGCCCTGTGCCGAGTTTCTGTGGCATACTGACCAGTGAGAACCAGAGATGTCTGGCAGAGCTCAGAC  
AGAAGTTGATTTTTGATGGCAATGAGGAAACCCGAAGAAAGTGGACTCTGCTGTCTTCTGCCTCTGCCT  
AGATGACTTCCGATGAAGGATCTTATTCATTGTACACACCATGCTGCACGGCGATGGCACAACCCGC  
TGGTTTGATAAGTCCTTTAACTCATTGTAGCCGAGGACGGCACTGCTGCAGTCCACTTCGAGCACTCGT  
GGGGGATGGGTGGCAGTGCTTAGGTTTTTCAATGAAGTGTTCAGAGACAGCACTCAGACCCCTGCCAT  
CACTCCCCAGAGCCAGCCTGCCGCCAACCTCCTCTGCGTCTGTGGAGACGCTCAGCTTCAACCTCAGC  
GGTGTCTCAAGGCTGGCATACTGCTGCCAAGGAGAAGTTTCGACACCACGGTGAACCCCTCAGCATTG  
ACTCCATTGATTCAGAGAGGTGGCAAGGAGTTCTGAAGAAGAAGCAGCTGAGCCCCGATGCGGTGGC  
CCAGCTGGCCTTCCAGATGGCCTTCTGAGACAGTATGGCCAGACGGTGGCTACCTATGAGTCTGCAGC  
ACTGCAGCCTTCAAGCACGGCCGACAGAGACTATCCGCCAGCCTCCATCTTTACTAAGAGATGCTCCG  
AGGCGTTTGTGAGGACCCCTCAAGCACAGTGTGGCGAGCTTTCAGCACATGATGGCTGAGTGTCCAA  
ATACCATGGCCAGCTGACCAAAGAAGCAGCGATGGCCAGGGCTTGGCCGACACTTGTATGCTCTGCGC  
TATCTGGCAACGGCCAGAGGACTCAACCTACCTGAGCTCTATCTGGATCCTGCATACCAGCAGATGAACC  
ACAACATCCTGTCCACCAGCACTCTGAACAGCCCAGCAGTGAACCTTGGGGGCTTTGCCCTGTGGTCCC  
TGATGGCTTTGGCATTGCATATGCTGTTACAGTACTGGATAGGCTGCAATGTCTCCTCTACTCAGGA  
CGCAATGCCCGAGAGTTTCTCCACTGTGTCCAGAAGTGTGGAAAGACATTTTCGATGCTCTAGAAGGCA  
AAGCCATCAAACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203577 representing NM\_012930  
 Red=Cloning site Green=Tags(s)

MMPRLLFRAWPRCPSLVLGAPSRPLSAVSGPDDYLQHSIVPTMHYQDSLPRLPPIPKLEDTMKRYLNAQKP  
 LLDDSQFRREALCKNFETGVGKELHAHLLAQDKQNKHTSYISGPWFDMYL TARDSIVLNFNPFMAFNP  
 PKSEYNDQLTRATNLTVSAVRFKTLQAGLLEPEVFHLLNPSKSDTDAFKRLIRFVPPSLSWYGAYLVNAY  
 PLDMSQYFRLFNSTRIPRPNRDELFTDTKARHLLVLRKGFYVFDVLDQDGNIVNPLEIQAHLKYLSDS  
 SPVPEFPVAYLTSENRDVWAE LRQKLIFDGNEETLKKVDSAVFCLCLDDFFPMKDLIHLSTMLHGDGTNR  
 WFDKSNLIVAEDGTAAVHFEHSWGDGVAVLRFFNEVFRDSTQTPAITPQSQPAATNSSASVETLSFNLS  
 GALKAGITAAKEKFDTTVKTLSDSIQFQRGGKEFLKKKQLSPDAVAQLAFQMAFLRQYQQTVAYESCS  
 TAAFKHGRTEIRPASIFTKRCSEAFVRDPSKHSV GELQHMAECSKYHGQLTKEAMGGQGFDRHLYALR  
 YLATARGLNLP ELYLDPAYQQMNHNILSTSTLNSPAVSLGGFAPVVPDGFIAAYVHDDWIGCNVSSYSG  
 RNAREFLHCVQKLEDIFDALEGKAIKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

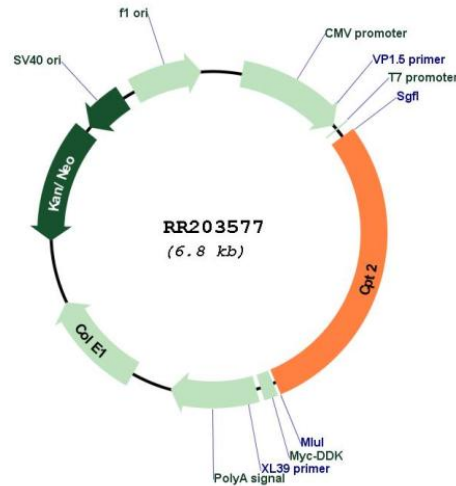
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_012930

ORF Size: 1974 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\\_012930.1](#), [NP\\_037062.1](#)

RefSeq Size:	2296 bp
RefSeq ORF:	1977 bp
Locus ID:	25413
UniProt ID:	<a href="#">P18886</a>
Cytogenetics:	5q34
MW:	74.1 kDa
Gene Summary:	inner mitochondrial membrane protein that converts acylcarnitine to acyl-CoA [RGD, Feb 2006]