

Product datasheet for **MR210568**

Cpt1a (NM_013495) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpt1a (NM_013495) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpt1a
Synonyms:	C730027G07; Cpt1; CPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210568 representing NM_013495
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 GGAGTCTGTGAGGCCACTGATGAAGGAGGGAGACTTCCAACGCATGACAGCACTGGCCCAGGATTTTGCT
 GTCAACCTTGGACCCAAATTGCAGTGGTATTTGAAGCTAAAATCCTGGTGGGCCACAAATATGTGAGTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210568 representing NM_013495
 Red=Cloning site Green=Tags(s)

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MAEAHQAVAFQFTVTPDGIDLRLSHEALKQICLSGLHSWKKKFIKFKNGIITGVFPASPSSWLIVVGVV
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GKMSRSTRIWMAMVKVFSGRKPMLYSFQTSPLPRLPVPVAVKDTVSRYLESVRPLMKEGDFQRMTALAQDFA
VNLGPKLQWYLKLSWWATNYVSDWWEYIYLRGRGPIMVNSNYAMEMLYITPTHIQAARAGNTIHAIL
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GRLLRPRELEQQMQQIILDDTSEPQGEAKLAALTAADRVPAKCRQTYFARGKKNQSLDAVEKAAFFVTL
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SKK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_c07.zip

Restriction Sites: Sgfl-Mlul

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_013495.2](#), [NP_038523.2](#)

RefSeq Size: 4331 bp

RefSeq ORF: 2322 bp

Locus ID: 12894

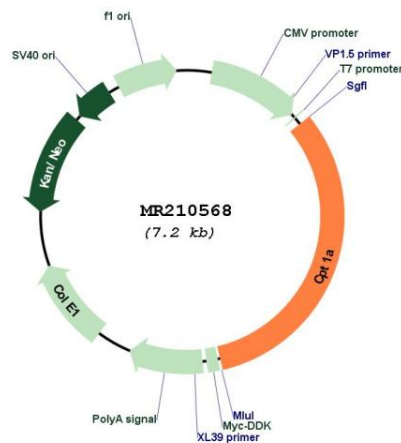
UniProt ID: [P97742](#)

Cytogenetics: 19 3.08 cM

MW: 88.3 kDa

Gene Summary: Catalyzes the transfer of the acyl group of long-chain fatty acid-CoA conjugates onto carnitine, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. Plays an important role in triglyceride metabolism.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210568