

## Product datasheet for **RN202656**

### **Cpt1a (NM\_031559) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpt1a (NM_031559) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cpt1a
Synonyms:	CPT-1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN202656 representing NM\_031559  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAGGCTACCAAGCTGTGGCCTTCCAGTTCCTGTCACCCCGATGGCATTGACCTCCGCCTGA  
 GCCACGAAGCCCTCAAACAGATCTGCCTGTCGGGGCTGCACTCCTGGAAGAAGAAGTTCATCCGGTTCAA  
 GAATGGCATCATCACTGGTGTGTTCCCCCGAATCCGTCAGCTGGCTTATCGTGGTGGTGGGTGTGATT  
 TCATCCATGCATGCCAAAGTGGACCCCTCCCTGGGCATGATCGCAAAGATCAGTCGGACCCTAGACACCA  
 CTGGCCGAATGTCAAGCCAGACGAAGAACATTGTGAGCGCGCTCCTTTTGGTACAGGGCTCTGGGTGGC  
 AGTCATCATGACCATGCGCTACTCGCTGAAGGTGCTGCTCCTACCACGGCTGGATGTTTGAGAACAC  
 GGCAAAATGAGCCGACGACCAAGATCTGGATGGCTATGGTCAAGGTCTCTCAGGTCGGAAGCCCATGT  
 TGTACAGCTTCCAGACGCTCTGCCACGCTGCCTGTCCAGCTGTCAAAGATACTGTGAGCAGGTACCT  
 GGATCTGTGAGGCCACTGATGAAGGAAGAAGACTTCCAGCGCATGACAGCACTGGCCAGGATTTTGTCT  
 GTCAACCTCGGACCCAAATTGCAGTGGTATTTGAAGCTAAAATCCTGGTGGGCCACAAATACGTGAGTG  
 ACTGGTGGGAAGAATATATCTACCTGCGGGGCCGAGGGCCGCTCATGGTCAACAGCAACTACTACGCCAT  
 GGAGATGCTGTACATACCCCAACCCATATCCAGGCAGCGAGAGCTGGCAACACCATCCACGCCATACTG  
 CTGTATCGTCGCACATTAGACCGTGAGGAACTCAAACCCATTTCGTTCTGGGATCCACCATTCCACTCT  
 GCTCGGCCAGTGGGAGCGACTTTCAATACTTCCCGGATCCCTGGGGAAGAGACAGACACCATCCAACA  
 TATCAAGGACAGCAGGCACATTGTTGTGTACCACAGAGGGCGGTACTTCAAGGTCTGGCTCTACCACGAT  
 GGGAGGCTGCTGAGGCCCGAGAGCTGGAGCAGCAGATGCAGCAGATCCTGGATGATCCCTCAGAGCCAC  
 AGCCTGGGAGGCCAAGCTGGCCGCCCTCACTGCTGCAGACAGAGTCCCTGGGCAAGTCTGGCAGAC  
 CTATTTTGCACGAGGGAAAAATAAGCAGTCCCTGGATGCGGTGGAAAAGGCAGCGTTCTTCGTGACGTTG  
 GACGAATCGGAGCAGGGATACAGAGAGGAGGATCCTGAGGCATCCATCGACAGCTACGCCAAATCCTGCTG  
 TGCATGGAAGATGCTTTGACAGGTGTTTGAAGTCCATCACCTTTGTTGTCTTCAAAAACAGCAAGAT  
 AGGCATAAATGCAGAGCACTCCTGGGCGGACGCGCCCGTCTGGGCCATTTGTGGGAGTATGTCATGGCC  
 ACCGACGCTTCCAGCTGGGTTACTCAGAGGATGGACACTGTAAGGAGACACCAACCCCAACATCCCTA  
 AGCCACAAGGCTACAATGGGACATTCCAGGAGAGTGCCAGGAGGTCATAGATGCATCCCTGAGCAGCGC  
 CAGTCTTTTGGCAAATGATGTGGACCTGCATTCTTCCATTTGACTCTTTCGGCAAAGGCTTGATCAAG  
 AAGTGGCCGACGAGTCCCGATGCCTTCATCCAGCTGGCGTGCAGCTCGCACATTACAAGGACATGGGCA  
 AGTTCTGCTCACATATGAGGCCTCCATGACCCGCTCTTCCGAGAAGGGAGGACAGAGACTGTACGCTC  
 CTGCACTATGGAGTCTGCAACTTTGTGACAGGCCATGATGGACCCCAAGTCAACGGCAGAGCAGAGGCTC  
 AAGCTGTTCAAGATAGCTTGTGAGAAGCACCAGCACCTGTACCGCTCGCCATGACGGGCGCCGGCATCG  
 ACCGCCATCTTCTGCCTCTATGTGGTGTCCAAGTATCTTGCAGTCGACTCACCTTCTGAAAGGAGGT  
 ATTTGCTGAGCCATGGAGTTGTCTACGAGCCAGACTCCTCAGCAGCAGGTGGAGCTCTTTGACTTTGAG  
 AAAAACCTGACTATGTGCTGTGGAGGGGGCTTTGGCCGGTGGCCGATGACGGCTATGGTGTCTCCT  
 ACATTATAGTGGGAGAGAATTTTATCCACTTCCATATTTCTTCCAAGTTCTTAGCCCTGAGACAGACTC  
 ACACCGCTTTGGGAAGCACTTGGACAAGCCATGATGGACATTATCACCTTGTGGCCTACCATCAAT  
 TCTAAAAAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_031559  
**Insert Size:** 2322 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031559.2</a> , <a href="#">NP_113747.2</a>
<b>RefSeq Size:</b>	4356 bp
<b>RefSeq ORF:</b>	2322 bp
<b>Locus ID:</b>	25757
<b>UniProt ID:</b>	<a href="#">P32198</a>
<b>Cytogenetics:</b>	1q42
<b>Gene Summary:</b>	enzyme that catalyses the transfer of long chain fatty acids to carnitine for translocation across the mitochondrial inner membrane [RGD, Feb 2006]