

## Product datasheet for **SC326138**

### **CROT (NM\_001143935) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CROT (NM_001143935) Human Untagged Clone
Tag:	Tag Free
Symbol:	CROT
Synonyms:	COT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

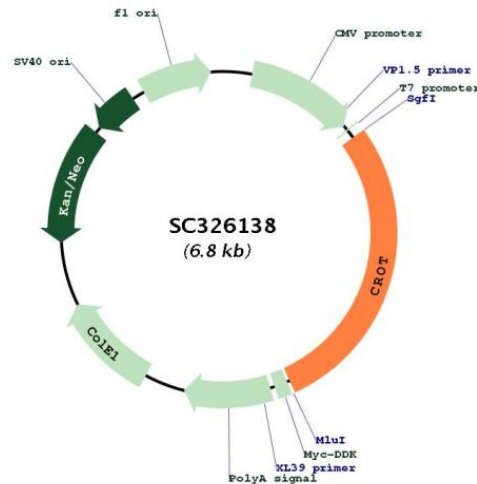


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Fully Sequenced ORF: >SC326138 representing NM\_001143935.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAAAATCAATTGGCTAAATCAACTGAAGAACGAACATTTAGTACCAGGATTCTCTCCATCACTG
CCTGTTCTTCACTTGAAGAATCATTAAAAAATACCTTGAATCAGTCACCAGAACATGCTACCAGATA
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TTTGCAAATCAAGAAGAATATAAGAAAAGTGAAGAAATAGTTCAAAAATTTCAAAGTGGGATTGGAGAA
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GATGACAGGTTTGTGTGGCCTGTTGAGCCTGGAATCCTGTCCCGAGACTGATGCGGAAAAGCTAGTT
CAGCTGACTTTTTGTGCTTTTTCATGATATGATACAGCTGATGAACTCTACTCATCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001143935

**Insert Size:** 1923 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001143935.1](#)

**RefSeq Size:** 3342 bp

**RefSeq ORF:** 1923 bp

**Locus ID:** 54677

**UniProt ID:** [Q9UKG9](#)

**Cytogenetics:** 7q21.12

**Protein Families:** Druggable Genome

**MW:** 73.4 kDa

**Gene Summary:** This gene encodes a member of the carnitine/choline acetyltransferase family. The encoded protein converts 4,8-dimethylnonanoyl-CoA to its corresponding carnitine ester. This transesterification occurs in the peroxisome and is necessary for transport of medium- and long- chain acyl-CoA molecules out of the peroxisome to the cytosol and mitochondria. The protein thus plays a role in lipid metabolism and fatty acid beta-oxidation. Alternatively spliced transcript variants have been described.[provided by RefSeq, Jan 2009]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).