

Product datasheet for **RR201019**

Crot (NM_031987) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crot (NM_031987) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crot
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR201019 representing NM_031987
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAAACAATTGGCTAAGTCAATTGAAGAACAACATTCCAGTACCAGGACTCTCTCCGCCCTTGC
 CCGTTCCTTCGCTTGAAGAATCACTGAAGAAGTACCTTGAGTCAGTGAAGCCATTTGCAAATGAAGACGA
 ATACAAGAAAACCTGAAGAATAGTTCAAAAAGTTTCAAGATGGAGTTGGCAAGACATTGCATCAGAAGTTA
 CTTGAAAGGGCTAAAGGAAAAAGAACTGGCTGGAAGAGTGGTGGCTCAATGTCGCCTACTTGGATGTGC
 GTATTCATCACAACTGAACGTGAACCTTGTGGGTCCGCTCCCCACTTTGAACACTACTGGCCTGCAAG
 GGAAGGCACTCAGTTGGAAGAGGAAGCATACTACTGTGGCACAACCTGAACTACTGGCAGCTGCTAAGA
 AGAGAAAAATTGCCTGTACATAAATCTGGAAATACTCCTAGACATGAACCAATCCGGATGCTGTTTT
 CTACCTGCAAGGTTCCGGGAATCACTAGAGATTCGATTATGAATTATTTAAGACTGAGAGCGAGGGGCA
 TTGTCCGACCCACATTGCCGTGCTGTGTCGAGGCAGAGCGTTTGTCTTCGATGTCCTCCATGACGGTTGT
 TTGATCACCCACCAGAACTTCTCAGACAACCTGACATACATCTACCAGAAATGCTGGAATGAACCTGTTG
 GGCCCACTATAGCGGCATTAACCACTGAGGAGCGAACTCGGTGGGCGAAGGCAAGAGAATATCTGATTGG
 TCTTGATCCAGAGAACTTGACTTTATTAGAAAAAATTCATCCAGTTTATTTGTGTATTCCATAGAAGAC
 ACCAGTCCACATGCAACCCAGAAAAATTTTCTCAGGTCTTTGAAATGCTTCTTGGTGGAGATCCAGCAG
 TGCGCTGGGGTGACAAGTCTATAATCTGATTTCTTTGCTAACGGAATATTTGGCTGTAGCTGTGATCA
 TGCTCCTATGATGCAATGCTTATGGTGAACATTGCTCACTATGTTGATGAGAAGCTCTAGAGACGGAA
 GGGAGATGGAAGGGTTTCAGAAAAAGTCCGGGATATACCGTTGCCAGAGGAGCTGGCTTTCCTGTTGATG
 AGAAGATACTGAATGACGCTACCAAGCCAAAGCCCAACACCTCAAAGCAGCATCTGATTTACAGATAGC
 AGCATCTACCTTACATCTTTTGGCAAAAAGCTCACTAAGAAGGAGGCCCTTACCCTGACACCTTTATT
 CAGCTCGCTCTTACGCTCGCCTACTACAGACTTATGGACGCCCGGTTGCTGCTATGAAACAGCTATGA
 CAAGATACTTTTACCATGGCCGAACAGAGACTGTGCGATCTTGTACAGTGGAGGCCGTCAGGTGGTGCCA
 GTCCATGCAGGATCCTTCTGCCAGTCTCCTTGAACGTCAGCAAAAGATGTTAGACGCTTTTGGAAAGCAT
 AACAGATGATGAGAGATTGTTCCCATGGAAAAGGATTTGACCGTCACCTTTTAGGCCTTTTGTCTATAG
 CAAAAGAGGAAGGCTCCCTGTTCCAGAACTGTTTGGAGTCCACTTTTCTCCAGAAAGTGGAGGAGGTGG
 GAATTTTGTGCTGTCAACAAGTCTGTTGGTACTTACGAATTCAGGGAGTCGTGGTCCCATGGTACAT
 AATGGATACGGCTTTTCTACCACATCAGAGATGACAGGTTTGTGGTACATGTTTCATCCTGGAGGTCAT
 GTCTTGAGACTGATGCAGAAAAGTTAGTGGAGATGATTTTTCATGCTTCCACGATATGATACATCTGAT
 GAACACGGCTCATCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201019 representing NM_031987
 Red=Cloning site Green=Tags(s)

MENQLAKSIEERTFYQDLSLPLPVPSLEESLKKYLESVKPFANEDEYKKTTEEIVQKFQDVGKTLHQKL
 LERAKGKRNWLEEWLNVAYLDVRIPSQLNVNFGVSPHFEHYWPAREGTQLERGSILLWHNLNYWQLLR
 REKLPVHKSGNTPLDMNQFRMLFSTCKVPGITRDSIMNYFKTESEGHCPHTIAVLCRGRAVFDVLHDGC
 LITPELLRQLTYIYQKWNPEVGPISIAALTSEERTRWAKAREYLIGLDPENLTLEKIQSSLFVYSIED
 TSPHATPENFSQVFEMLLGGDPVWRWGDKSYNLISFANGIFGCSCDHAPYDAMLVNI AHYVDEKLLTE
 GRWKGSEKVRDIPLPEELAFVDEKILNDVYQAKAHLKAASDLQIAASTFTSFGKLTKEALHPDFTI
 QLALQLAYYRLHGRPGCCYETAMTRYFYHGRTEIVRSCTVEAVRWCQSMQDPSASLLERQKMLDAFAKH
 NKMMRDGCSHGKGFDRHLLGLLLIAKEEGLPVPELFDPLF SRSGGGNFVLSLSTLVGYLRIQGVVPMVH
 NGYGFFYHIRDDRFVVTCSWRSCLTDAEKLVEIMIFHAFHDMIHLMNTAHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031987

ORF Size: 1836 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_031987.1](#), [NP_114193.1](#)

RefSeq Size: 2681 bp

RefSeq ORF: 1839 bp

Locus ID: 83842

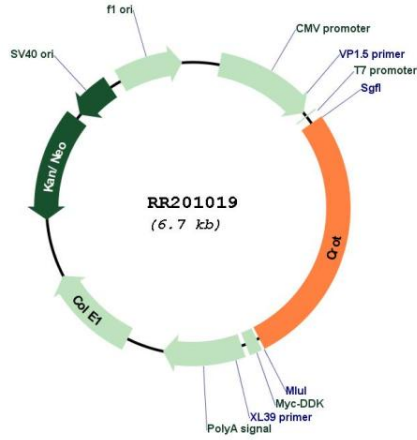
UniProt ID: [P11466](#)

Cytogenetics: 4q12

MW: 70.3 kDa

Gene Summary: catalyzes the conversion of L-carnitine and octanoyl-CoA to L-octanoylcarnitine and CoA; plays a role in fatty acid transport [RGD, Feb 2006]

Product images:



Circular map for RR201019