OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC332535

CRAT (NM_001257363) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CRAT (NM_001257363) Human Untagged Clone

Tag: Tag Free

Symbol: CRAT

Synonyms: CAT; CAT1; NBIA8

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC332535 representing NM_001257363.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAGGCTTCCAGCCGCTTCAAGGCACACCAGGATGCACTGCCACGGCTGCCCGTGCCCCCTCTCCAG
CAGTCCCTGGACCACTACCTGAAGGCGCTGCAGCCCATCGTGAGTGAGGAGGAGTGGGCCCACACCAAG
CAGCTGGTGGATGAGTTTCAGGCCTCAGGAGGTGTAGGGGAGCGCCTGCAGAAGGGGCTGGAGCGTCGG
GCCAGGAAGACGGAGAACTGGCTGTCTGAGTGGTGGCTCAAGACCGCCTACCTCCAGTACCGCCAGCCT
GTGGTCATCTACTCGAGCCCAGGCGTGATGCTACCCAAGCAGGACTTCGTGGACCTGCAGGGTCAGCTC
CGATTTGCTGCCAAACTCATTGAGGGTGTGTTGGATTTCAAGGTCATGATTGACAACGAGACCCTGCCC
GTGGAGTACCTGGGGGGGAAGCCACTGTGCATGAACCAGTACTATCAGATCTTGTCCTCCTGCCGAGTG
CCGGGCCCCAAGCAGGACACAGTCAGCAACTTCAGCAAGACCAAGAAGCCTCCCACGCACATCACCGTG
GTACACAACTACCAGTTTTTTGAGCTGGATGTGTACCACAGTGACGGGACACCCCTCACTGCGGATCAG
ATCTTTGTGCAGCTGGAGAAGATCTGGAACTCATCCCTACAGACCAACAAGGAGCCTGTGGGCATCCTC
ACCTCCAACCACCGCAACTCCTGGGCCAAGGCATACAACACCCTCATCAAAGACAAGGTGAACCGGGAT
TCCGTGCGCTCCATCCAGAAGAGCATCTTCACCGTGTGCCTAGATGCAACCATGCCCAGGGTCTCAGAA
GACGTGTACCGCAGCCACGTGGCAGGCCAGATGCTGCATGGGGGCGGCAGCAGGCTCAACAGCGGCAAC
CGCTGGTTCGACAAGACGCTGCAGTTCATCGTGGCAGAAGATGGCTCCTGTGGGCTTGTGTACGAGCAT
GCTGCAGCGGAGGGGCCCCCTATTGTCACCCTTCTGGACTATGTCATCGAGTACACGAAGAAACCCGAG
CTTGTGCGGTCTCCCATGGTGCCCCTGCCCATGCCCAAGAAGCTGCGGTTCAACATCACCCCCGAGATC
AAGAGCGACATCGAGAAGGCCAAGCAGAACCTCAGCATCATGATCCAGGACCTGGATATCACCGTGATG
GTGTTCCACCATTTTGGAAAAGACTTCCCCAAGTCGGAGAAGCTAAGCCCAGATGCCTTCATCCAGATG
GCTTTGCAGCTGGCCTACTACAGGATCTACGGACAGGCATGTGCCACCTATGAAAGTGCCTCCCTGCGC
ATGTTTCACCTGGGCCGCACCGACACCATCCGCTCGGCTTCCATGGACTCACTCACCTTTGTCAAGGCC
ATGGATGACTCCAGCGTCACGGAGCACCAGAAGGTGGAGCTGCTGCGGAAGGCCGTGCAGGCCCACCGA
GGCTACACCGACCGGGCCATCCGCGGGGAGGCCTTTGATCGACACCTGCTGGGCCTGAAGCTGCAGGCC
ATCGAGGACCTGGTGAGCATGCCCGACATCTTCATGGACACCTCCTACGCCATCGCCATGCACTTCCAC
CTCTCCACCAGCCAGGTCCCTGCCAAGACAGACTGTGTCATGTTCTTCGGGCCCGTGGTCCCCGACGGC
TACGGTGTCTGCTATAACCCCATGGAGGCCCACATCAACTTCTCCCTGTCGGCCTACAACAGCTGCGCG
GAGACCAACGCCGCCCGCCTGGCGCATTACCTGGAGAAGGCGCTCCTGGACATGCGTGCCCTGCTGCAG
AGCCACCCCCGGGCCAAGCTCTGA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001257363
Insert Size:	1818 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).
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_001257363.1
RefSeq Size:	2865 bp
RefSeq ORF:	1818 bp
Locus ID:	1384
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome
MW:	68.6 kDa
Gene Summary:	This gene encodes carnitine O-acetyltransferase, a member of the carnitine acyltransferase family and a key metabolic pathway enzyme which plays an important role in energy homeostasis and fat metabolism. This enzyme catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acyl-CoA/CoA. It is found in both the mitochondria and the peroxisome. Alternative splicing results in transcript variants encoding different isoforms that may localize to different subcellular compartments. [provided by RefSeq, Oct 2016] Transcript Variant: This variant (2) contains an alternate exon in the 5' region and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1. Variants 2 and 6 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.