

## Product datasheet for **MC206781**

### Crat (BC006668) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Crat (BC006668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crat
Synonyms:	AW107812; CARAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006668  
 CGCGGGGCGCCTCTACTGGCTAGCGGCAGTACTCGGCGACCTTGAACCTAGAACCGGAGCCGCGAAACC  
 CACTGACCCAGCACCCAGCAGTGGCGCAGTCTTTACCCAGCGCGAGGGGCGGAGCGGACCGAGTGTCC  
 GCAAACAGACTGGGACGATGTTAGCCTTTGCTGCCAGAACCGTGGTAAAACCCCTGGGCCTCTCAAGCC  
 CTCCTCCTTGATGAAGGTTTCTGGTCGCTTCAAGGCCACCAAGATGACTGCCAAGGCTGCCTGTGCC  
 CCACTTCAGCAATCCCTGGACTATTACCTCAAGGCACTGCAGCCCATCGTGAAGTGAAGAAATGGGCTC  
 ACACCAAGCAACTGGTGGATGAGTTTCAGACCTCAGGGGCGTAGGGGAACGCCTACAGAAGGGACTGGA  
 GCGCAGGGCCAAGAAAATGGAGAAGTGGCTGTCCGAGTGGTGGCTCAAGACAGCCTATCTCCAGTCCGC  
 CAGCCTGTGGTCACTACTCCAGCCAGGAGTGATCCTGCCAAGCAGGACTTTGTGGATCTACAGGGTC  
 AGCTTCGGTTTGTGCCAACTCATCGAGGGTGTATTGGATTTCAAGTCCATGATTGACAATGAGACGCT  
 GCCAGTTGAGTTCCTGGGAGGACAGCCGCTGTGCATGAACCAAGTATTATCAGATCCTGTCTTCTTCCGCT  
 GTGCCCGGCCCAAGCAGGACTCAGTGGTGAACCTCTTAAAGTCAAAGAGACCACCCACGCATATAACCG  
 TGGTGCATAACTACCAGTCTTCGAGCTGGATGTGTACCACAGTGACGGAACACCCGCTCACCTCAGATCA  
 GATCTTTGTGAGCTAGAGAAAATATGGAATTCCTCACTGCAATCCAACAAGAGCCTGTTGGCATCCTA  
 ACCTCCAACCACGAAACACCTGGGCCAAGGCCTACAACAACCTCATTAAAGACAAGTTAACCGAGAGT  
 CAGTGAATCCATACAGAAGAGCATCTTACCCTGTGCCTGGACAAGCAAGTGCCTAGAGTCTCAGATGA  
 TGCTACCGAAACCAGTACGAGCCAGATGCTACATGGTGGTGGTAGCAAGTTCAACAGTGGAACCCG  
 TGGTTTGACAAGACACTGCAGTTCATCGTGGCAGAAGACGGCTCCTGTGGGATGGTGTATGAGCATGCAG  
 CTGCAGAAGGGCCCCCATAGTTGCACTTGTGGACCATGTGATGGAGTATACAAAAAGCCTGAGCTTGT  
 GCGGTCTCCTATGGTGCCTTGCCAATGCCAAGAAGTGCGGTCAACATCACACCTGAGATCAAGAAC  
 GACATAGAGAAAGCCAAACAGAACCTCAGCATCATGATCCAGGACCTGGACATCATGATGCTGACGTTCC  
 ATCACTTTGAAAAGGACTTCCCCAAGTCCGAGAAGCTAAGCCCTGATGCCTTATCCAGTAGCCCTGCA  
 CTTGGCATACTACAGGATCTATGGGCAGCGGTGCCACGATGAAAGTGCCTCTCTGCGCATGTTTCAC  
 CTGGGCCCACTGACACCATCCGCTCAGCCTCCATAGACTCGCTGGCCTTTGTCAAAGGCATGGGTGACT  
 CCACAGTGCCGGAGCAGCAGAAGGTGGAGCTGCTCCGGAAGGCTGTGCAGGCCACCCGAGCCTACTGGA  
 CCGGGCCATCCGAGGGGAGGCTTTGACCGGCACCTGCTGGTCTGAAGCTGCAGGCCATCGAGGACCTG  
 GTCAGCATGCCTGACATCTTATGGACACCTTACGCCATTGCTATGCACCTAACCTCTCTACCAGCC  
 AGGTCCCTGCCAAGACAGACTGTGTATGTTCTTCGGACCTGTGGTCCCAGATGGTTATGGCATCTGCTA  
 CAACCCCATGGAGGCCATATCAACTTCTCCGTGTCAGCCTACAACAGCTGTGCTGAGACCAACGCTGCC  
 CGCATGGCTCACTACTTGGAGAAAGCTCTGCTGGACATGCGCACCCCTACTCCAGAACCACCCAGGGCCA  
 AGCTCTGAGCCCAGGCCAGACCTGCCACTTCCACAGCCAAACCCACTTTGGGATGGACACTTGCCATGG  
 CTCACTTCTTGGCTCCCGTGCCTCCAGTTTGGCCAGAAAAGCATTCTTAGCAAGGCCCAAGTCC  
 ACACCAAGTGCCTTCCAGGCCCTGCTTATGACCTGCCGGAGTCCATGTGCAGGGCTGAGTCCAGAGGC  
 TGAACAAGACTACGGCCAGGTTCCCAATGATATCCACTCCATGAACCATGGAGAAGAGAGCCAGTCC  
 AGCCCATCCCTTCTCACAGCAGGAGCCGGGAAGAGTTCCTTTCTCAGCCTGGCCAATCTCTTGTATCT  
 CCACAGCCAGGCCAAAATCTGTCTTCAATTGGTAATGCCAAGGACCAGCGGTGGGAGGATTATCTATCA  
 GTGAGGGCTCTCAACCTCCCATAGCTAAGGGTAAAGTCTTTGTAGCCAAAGGGACATCTGAGGCCACG  
 CTCCACCAGCCCACCTCAAGGTGCCATCTCCCTGCTGCCACACTCTGGTACTCTTGGAGCCCAGACTTA  
 TTGCTTCCATTCAGTGTGATTCTTGTGTCAGTCATGGTGGTATAATGTGATTATGCCAGGTGATCAATAA  
 AGGGAAGAAGTGTAAA AAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** BC006668  
**Insert Size:** 1881 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).

<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>	<u><a href="#">BC006668</a></u> , <u><a href="#">AAH06668</a></u>
<b>RefSeq Size:</b>	2734 bp
<b>RefSeq ORF:</b>	1880 bp
<b>Locus ID:</b>	12908
<b>Cytogenetics:</b>	2 21.69 cM
<b>Gene Summary:</b>	Catalyzes the reversible transfer of acyl groups from carnitine to coenzyme A (CoA) and regulates the acyl-CoA/CoA ratio. Also plays a crucial role in the transport of fatty acids for beta-oxidation. May be specific for short chain fatty acids.[UniProtKB/Swiss-Prot Function]