

## Product datasheet for **RN215105**

### **Aco2 (NM\_024398) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aco2 (NM_024398) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aco2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN215105 representing NM\_024398  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCTTACAGCCTACTGGTCACCCGGCTGCAGAAGGCCCTGGGTGTGCGGCAGTACCATGTGGCCT  
 CTGCCCTGTGCCAACGGCCAAGGTGGCCATGAGCCACTTTGAGCCAGTGAGTACATCCGATATGACCT  
 GCTAGAGAAGAACATTAACATTGTCCGTAACCGTTGAACCGCCCTTACTCTCTCGGAGAAGATTGTG  
 TATGGACACCTGGATGACCCAGCCAACCAGGAGATCGAGCGGGAAAGACATACCTGCGTTTACGGCCCG  
 ACCGGGTGGCCATGCAGGATGCAACAGCCAGATGGCTATGCTACAGTTTATTAGCAGTGGGCTGCCAA  
 GGTGGCTGTGCCATCAACATCCACTGTGATCATCTGATTGAGGCCAGCTTGGGGTGAGAAAGACCTA  
 CGCCGGGCAAGGACATAAACCAGGAAGTATAAATTTCTGGCAACTGCCGGTGCCAAGTATGGTGTGG  
 GCTTCTGGAGGCCTGGATCTGGAATCATTACCAGATCATTCTAGAAAATATGCATACCCTGGAGTTCT  
 TCTGATTGGCACTGACTCCACACCCCAATGGGGTGGCTGGGAGGTATCTGCATTGGAGTAGGGGT  
 GCTGATGCTGTGGATGTCATGGCTGGGATCCCCTGGGAGCTGAAGTGTCCAAGGTGATTGGCGTGAAGC  
 TGACGGGCACCCTCTCTGGTGGACCTCACCAAGATGTGATCCTGAAAGTGGCCGGCATCCTCACAGT  
 GAAAGGTGGCACAGGTGCCATTGTGGAATACCATGGACCTGGTGTGACTCCATCTCCTGCACTGGCATG  
 GCAACAATTTGCAACATGGGTGCAGAAATGGGGCCACTACATCAGTGTCCCCTACAACCACAGGATGA  
 AAAAGTACCTGAGCAAGACAGGCCGAGCAGACATTGCCAACCTAGCAGAAGAATCAAGGATCACTTAGT  
 GCCTGACCCTGGCTGCCAGTATGACCAAGTATTGAAATTAACCTCAATGAGCTAAAGCCACATATCAAT  
 GGACCCCTTACCCTGACTTGGCTCACCCAGTGGCAGATGTGGCACTGTGGCAGAGAAGGAAGGGTGGC  
 CTCTGGACATCAGAGTAGGTTTATTGGCAGCTGCACCAATTCAAGCTACGAGGACATGGGACGATCAGC  
 AGCTGTGGCCAAGCAAGCCCTGGCGCACGACTCAAGTGAAGTCTCAGTTCACCATCACCCAGGCTCT  
 GAGCAGATCCGAGCCACTATCGAGCGGGATGGCTATGCACAGATCCTAAGGGATGTGGGTGGAATCGTTT  
 TGGCCAATGCCTGTGGCCCTTGATCGGCCAGTGGGACAGGAAAGACATCAAGAAGGGGAGAAGAATAC  
 AATCGTCACTCTACAACAGGAACTTACAGGCCGTAATGATGCAAACTCCTGAGACCCATGCCTTTGTC  
 ACATCCCAGAGATTGTCACAGCCCTGGCCATTGCGGAAACCCTTAAGTTCAACCAGAACTGACTTCT  
 TAACAGGCAAGGATGGCAAGAAGTTCAAGTTGGAGGCTCCAGATGCAGATGAGCTTCCCCGATCGGACTT  
 TGATCCAGGGCAGGACACATACCAGCACCCCTAAGGACAGCAGTGGCCAGCGGTGGATGTGAGCCCT  
 ACCAGCCAGCGCTGCAGCTCCTGGAACCTTTTGACAAATGGGATGGCAAAGACCTAGAGGACCTGCAAA  
 TCCTTATCAAGGTCAAAGGGAAGTGCACCACAGACCACATTTCTGCTGCCGGCCCTGGCTCAAGTCCG  
 TGGCATCTGGATAACATCTCTAATAACCTGCTTATCGGTGCCATCAACATCGAAAATGGCAAAGCCAAT  
 TCTGTGGCAATGCTGTCAACCAGGAGTTTGGCCCTGTACCTGCACTGCTCGTACTACAAGAAACATG  
 GCATCAGGTGGTGGTATTGGAGATGAGAACTACGGTGAAGGCTCAAGCCGGGAGCAGCAGCACTGGA  
 GCCTCGCCATCTGGGGGGCCGAGCCATCATACCAAGAGCTTCGCAAGGATCCATGAAACCAATCTAAAG  
 AAGCAGGGCTTGTGCCCTCACCTTTGCTGACCCCTCTGACTACAACAAGATTCATCCAGTGGACAAGC  
 TGACCATCAAGGCTGAAGGACTTTGCCCTGGCAAGCCTCTGAACTGCATCATCAAGCACCCCAATGG  
 GACCCAGGAGACCATCCTGCTGAACCACACTTCAACGAGACACAGATCGAGTGGTCCGTGCAGGCAGC  
 CCCCTCAACAGGATGAAGGAGCTGCAGCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_024398  
**Insert Size:** 2343 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_024398.2</a> , <a href="#">NP_077374.2</a>
<b>RefSeq Size:</b>	3287 bp
<b>RefSeq ORF:</b>	2343 bp
<b>Locus ID:</b>	79250
<b>UniProt ID:</b>	<a href="#">Q9ER34</a>
<b>Cytogenetics:</b>	7q34
<b>Gene Summary:</b>	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.[UniProtKB/Swiss-Prot Function]