

## Product datasheet for **RR201822**

### Ahcy (NM\_017201) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ahcy (NM\_017201) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ahcy  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR201822 representing NM\_017201  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATAAACTGCCCTACAAAGTCGCGGACATTGGACTGGCTGCCTGGGGACGGAAGGCCCTGGACA  
TAGCTGAGAACGAGATGCCAGGTTTGTATGCGCATGCGGGAGATGTAAGCTCAGCCTCCAAGCCACTGAAGGG  
CGCTCGCATTGCTGGCTGCCTGCACATGACTGTGGAGACTGCTGTCTCATTGAGACTCTCGTGGCCCTG  
GGTGCTGAGGTGCGGTGGTCCAGCTGCAACATCTTCTCCTCAGGACCATGCAGCGGCTGCCATTGCCA  
AGGCTGGCATTCCAGTGTTCCTGGAAGGGAGAGACGGATGAAGAGTACCTGTGGTGCATTGAGCAGAC  
GTTGCACTTCAAGGACGGACCCCTCAACATGATTCTGGATGATGGCGGTGACCTTACTAACCTCATCCAC  
ACCAAACACCCACAGCTTCTGTCAGGCATCCGAGGTATCTCTGAGGAGACCACGACTGGCGTCCACAACC  
TCTACAAGATGATGGCCAATGGGATACTGAAGGTGCCTGCCATCAACGTCAACGATTCTGTCACCAAGAG  
CAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAACGGGCAACAGATGTGATG  
ATTGCGGGCAAGGTGGCAGTGGTAGCAGGCTATGGTATGTGGCAAGGTTGTGCCAGGCCCTGCGGG  
GTTTCGGGGCCCGAGTCATCATCCGAGATTGACCCCATCAATGCACTGCAAGCTGCCATGGAGGGCTA  
CGAGGTAACCACCATGGACGAGGCTGTAAAGGAGGCAACATCTTTGTGACCACACGGGCTGTGTGTGAT  
ATCATCTTGGTGGCACTTTGAACAGATGAAGGATGATGCCATTGTCTGTAACATTGGACACTTCGACG  
TGGAGATTGATGTGAAGTGGCTCAATGAGAACGCTGTGGAGAAGGTGAACATCAAGCCCCAGGTGGACCG  
CTACTTGCTAAAGAAATGGGCACCGCATCATCTTGTGGCTGAGGGCCGTCTGGTCAACCTGGGTTGTGCC  
ATGGGCCACCCAGCTTCGTGATGAGCAACTCCTTCAAAACAGGTGATGGCACAGATTGAGCTGTGGA  
CCCACCCAGACAAATACCCCGTGGGGTTCACTTCTGCTAAGAAGCTGGATGAGGCAGTGGCTGAAGC  
CCACCTGGGCAAGCTGAACGTCAAGCTGACCAAGCTGACTGAGAAGCAGGCTCAGTACCTGGGCATGCC  
ATTAACGGCCCTTCAAGCCTGATCACTACCGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR201822 representing NM\_017201  
 Red=Cloning site Green=Tags(s)

MADKLPYKVADIGLAAWGRKALDIAENEMPGLMRMREMYSASKPLKGARIAGCLHMTVETAVLIETLVAL  
 GAEVRWSSCNIFSTQDHAAAAIAKAGIPVFAWKGETDEEYLWCIEQTLHFKDGPLNMILDDGGDLTNLIH  
 TKHPQLLSGIRGISEETTTGVHNLKMMANGILKVPAINVNDVTKSKFDNLYGCRESLIDGIKRATDVM  
 IAGKVAVVAGYGDVKGCAQALRGFGARVIITEIDPINALQAAMEGYEVTMTDEACKEGNIFVTTTGCVD  
 IILGRHFEQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNKPKQVDYRLLKNGHRIILLAEGRVLNLGCA  
 MGHPSFVMSNSFTNQVMAQIELWTHPKYPVGVHFLPKKLDEAVAEHLGKLVNKLTKLTKQAQYLGMF  
 INGPFKPDHYRY

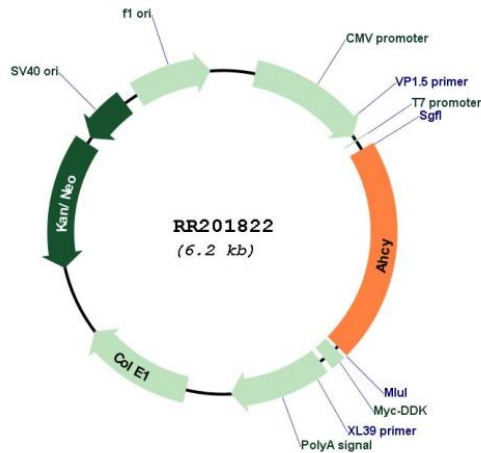
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_017201
<b>ORF Size:</b>	1296 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_017201.1</a> , <a href="#">NP_058897.1</a>
<b>RefSeq Size:</b>	2029 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	29443
<b>UniProt ID:</b>	<a href="#">P10760</a>
<b>Cytogenetics:</b>	3q41
<b>MW:</b>	47.5 kDa
<b>Gene Summary:</b>	enzyme that catalyzes the hydrolysis of S-adenosylhomocysteine to form adenosine and homocysteine [RGD, Feb 2006]