

## Product datasheet for **SC319344**

### S adenosylhomocysteine hydrolase (AHCY) (NM\_000687) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S adenosylhomocysteine hydrolase (AHCY) (NM_000687) Human Untagged Clone
Tag:	Tag Free
Symbol:	S adenosylhomocysteine hydrolase
Synonyms:	adoHcyase; SAHH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000687.1  
 GCTGCCCGCCAGTTCCTGTTCACAGACTGAGGCCAGCCCCCTTCGCCCGTTTCCATCA  
 CGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCGCCGACATCGGCCTGGCTG  
 CCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCTGATGCGTATGC  
 GGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACA  
 TGACCGTGGAGACGGCCCTCTCATTGAGACCCTCGTCACCCTGGGTGCTGAGGTGCAGT  
 GGTCCAGCTGCAACATCTTCTCCACCCAGGACCATGCGGCGGCTGCCATTGCCAAGGCTG  
 GCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGTACCTGTGGTGCATTGAGC  
 AGACCCTGTACTTCAAGGACGGGCCCTCAACATGATTCTGGACGACGGGGCGACCTCA  
 CCAACCTCATCCACCAAGTACCCGACGTTCTGCCAGGCATCCGAGGCATCTCTGAGG  
 AGACCAGACTGGGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGC  
 CTGCCATCAATGTCAATGACTCCGTCACCAAGAGCAAGTTTGACAACCTCTATGGCTGCC  
 GGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGATGATTGCCGGCAAGGTAG  
 CGGTGGTAGCAGGCTATGGTGTGTGGCAAGGGCTGTGCCAGGCCCTGCGGGGTTTCG  
 GAGCCCGGCTCATCATACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGG  
 GCTATGAGGTGACCACCATGGATGAGGCCTGTCCAGGAGGCAACATCTTTGTACCACCA  
 CAGGCTGTATTGACATCATCCTTGGCCGCACTTTGAGCAGATGAAGGATGATGCCATTG  
 TGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGTGGCTCAACGAGAACGCCG  
 TGGAGAAGGTGAACATCAAGCCGAGGTGGACCGGTATCGGTTGAAGAATGGGCGCCGCA  
 TCATCCTGCTGGCCGAGGGTCCGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCT  
 TCGTGTAGTAAGTCTTCAACCAACAGGTGATGGCGCAGATCGAGCTGTGGACCCATC  
 CAGACAAGTACCCGTTGGGGTTCATTTCTGCCAAGAAGCTGGATGAGGCAGTGGCTG  
 AAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGTAACTGAGAAGCAAGCCAGT  
 ACCTGGGCATGTCTGTGATGGCCCTTCAAGCCGGATCACTACCGCTACTGAGAGCCAG  
 GTCTGCGTTTTACCCCTCAGCTGCTGCTTGGCCAGGCCACCTCTCCTCCCTAAGAG  
 CTAATGGCACCAACTTTGTGATTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGA  
 TCACTTAGTTTTTGGCCTCTGCTGCAGCCGTCATACTGTTCCAAATGTGGCAGCGGGAAC  
 AGAGTACCCTCTCAAGCCCGGTGATGATGGAGGTCCCAGCCACAGGGAACCATGAGCT  
 CAGTGGTCTTGGAACAGCTCACTAAGTCAGTCTTCTTACGCTGGAAGTCAGTAGTGGA  
 GTCACAAAGCCATGTGTTTTGCCATCTAGGCCTTACCTGGTCTGTGGACTTATACCTG  
 TGTGCTTGGTTTACAGGTCCAGTGGTTCTTACGCCATGACAGATGAGAAGGGGCTATAT  
 TGAAGGGCAAAGAGGAAGTGTGTTTGAATTTTCTGAGAGCCTGGCTTAGTGCTGGGCC  
 TTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCCCTGTTTTACAGGGGTTAG  
 AATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAGAGG  
 GGCCAGAAAAACATGAATGCAGGCAGATTTTCGTGAAATCTGCCACCCTTTATAACCAGA  
 TGGTTCCTTTCTCAACCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAA  
 AGCAGGAAGGTGGGTAATAAAAAATCTTGGTGCCTGGAAAAA  
 AAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000687

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<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="#">NM_000687.1</a></u> , <u><a href="#">NP_000678.1</a></u>
<b>RefSeq Size:</b>	2110 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	191
<b>UniProt ID:</b>	<u><a href="#">P23526</a></u>
<b>Cytogenetics:</b>	20q11.22
<b>Domains:</b>	AdoHcyase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
<b>Gene Summary:</b>	<p>S-adenosylhomocysteine hydrolase belongs to the adenosylhomocysteinase family. It catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). Thus, it regulates the intracellular S-adenosylhomocysteine (SAH) concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>