

## Product datasheet for **RC232830**

### AHCYL1 (NM\_001242674) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL1 (NM_001242674) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AHCYL1
Synonyms:	DCAL; IRBIT; PPP1R78; PRO0233; XPVKONA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RC232830 representing NM\_001242674  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGGAGTTACCAAATTCCCACAAAACCTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCTCT  
 CCACTGACAGCTACAGTTCAGCTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCGAGAGAA  
 GCAGCAAACCAACTCCAAGGGCAGCAGCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGC  
 CGGGAGATTGAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGAGA  
 AGCCCTTGGCTGGTAAATAGTGGCTGTACACACATCACAGCCAGACAGCGGTGTTGATTGAGAC  
 ACTCTGTGCCCTGGGGCTCAGTCCGCTGGTCTGCTTGAACATCTACTCAACTCAGAATGAAGTAGCT  
 GCAGCACTGGCTGAGGCTGGAGTGCAGTGTTCGCTTGAAGGGCGAGTCAGAAGATGACTTCTGGTGGT  
 GTATTGACCGCTGTGTAACATGGATGGTGGCAGGCCAACATGATCCTGGATGATGGGGGAGACTTAAC  
 CCACTGGGTTTATAAGAAGTATCCAACGTGTTTAAAGAAGATCCGAGGCATTGTGAAGAGAGCGTGACT  
 GGTGTTACAGGCTGTATCAGCTCTCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACGCAATGATT  
 CTGTTACCAAACAGAAGTTTGATAAATTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGAGGAC  
 CACAGATGTGATGTTGGTGGGAAACAAGTGGTGGTGTGGCTATGGTGAAGTAGGCAAGGGCTGCTGT  
 GCTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCC  
 GCATGGATGGGTTTCAAGGTTAAAGCTAAATGAAGTCAATCCGGCAAGTCGATGTCGTAATAACTTGCAC  
 AGGAAATAAGAATGTAGTGACACGGGAGCACTTGGATCGCATGAAAAACAGTTGTATCGTATGCAATG  
 GGCCACTCCAACACAGAAATCGATGTGACCAGCCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGTT  
 CTCAGGTGGACCATGTCATCTGGCCAGATGGCAAACGAGTTGTCCTCCTGGCAGAGGGTCTCACTCAA  
 TTTGAGCTGCTCCACAGTTCACCTTTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCAGTATA  
 GAACTCTATAATGCACCCGAGGGCGATACAAGCAGGATGTACTTGTCTCCTAAGAAAATGGATGAAT  
 ACGTTGCCAGCTTGCATCTGCCATCATTTGATGCCACCTTACAGAGCTGACAGATGACCAAGCAAATA  
 TCTGGGACTCAACAAAAATGGGCCATTCAAACCTAATTATTACAGATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232830 representing NM\_001242674  
 Red=Cloning site Green=Tags(s)

MQEFTKFPTKTGRRSLRSISQSSTDSYSSAASYTDSSDDEVSPREKQQTNSKGSNFCVKNIKQAEFGR  
 REIEIAEQDMSALISLRKRAQGEKPLAGAKIVGCTHITAQTAVLIETLCALGAQCRWSACNIYSTQNEVA  
 AALAEAGVAVFAWKGESEDDFWCIDRCVNMDGWQANMILDDGGDLTHWVYKYPNVFKIRGIVEESVT  
 GVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNL YCCRESILDGLKRTTDMFVGKQVVVCGYGEVKGCC  
 AALKALGAIVYITEIDPICALQACMDGFRVVKLNEVIRQVDVVI TCTGNKNVVTREHLDRMKNSCIVCNM  
 GHSNTEIDVTSRLRPEL TWERVRSQVDHVIWPDGKRVLLEAGRLLNLSCSTVPTFVLSITATTQALALI  
 ELYNAPEGRYKQDVYLLPKKMDEYVASLHLP SFD AHL TELTDDQAKYLGLNKNKNGPFKPNYYRY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

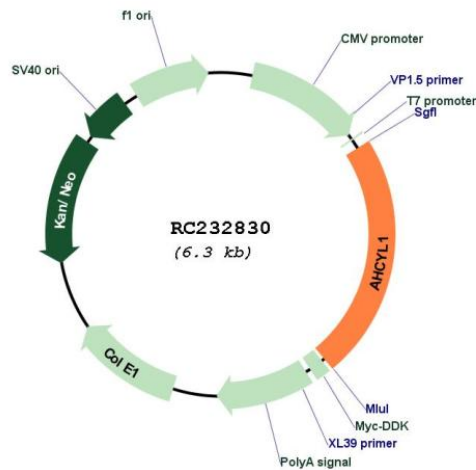
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN:

NM\_001242674

ORF Size:

1449 bp

OTI Disclaimer:

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. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

<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_001242674.1</a></u> , <u><a href="#">NP_001229603.1</a></u>
<b>RefSeq Size:</b>	3690 bp
<b>RefSeq ORF:</b>	1452 bp
<b>Locus ID:</b>	10768
<b>UniProt ID:</b>	<u><a href="#">O43865</a></u>
<b>Cytogenetics:</b>	1p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism
<b>MW:</b>	54.2 kDa
<b>Gene Summary:</b>	The protein encoded by this gene interacts with inositol 1,4,5-trisphosphate receptor, type 1 and may be involved in the conversion of S-adenosyl-L-homocysteine to L-homocysteine and adenosine. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]