

Product datasheet for **SC115987**

AHCYL1 (NM_006621) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL1 (NM_006621) Human Untagged Clone
Tag:	Tag Free
Symbol:	AHCYL1
Synonyms:	DCAL; IRBIT; PPP1R78; PRO0233; XPVKONA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115987 sequence for NM_006621 edited (data generated by NextGen Sequencing)

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ATGTTCGATGCCTGACGCGATGCCGCTGCCCGGGTTCGGGGAGGAGCTGAAGCAGGCCAAG
GAGATCGAGGACGCCGAGAAGTACTCCTTCATGGCCACCGTCACCAAGGCGCCCAAGAAG
CAAATCCAGTTTGTCTGATGACATGCAGGAGTTCACCAAATCCCCACAAAACCTGGCCGA
AGATCTTTGTCTCGCTCGATCTCACAGTCTCCACTGACAGCTACAGTTCAGTTCAGTCCATCC
TACACAGATAGCTCTGATGATGAGGTTTCTCCCCGAGAGAAGCAGCAAACCAACTCCAAG
GGCAGCAGCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGCCGGGAGATT
GAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGGAG
AAGCCCTTGGCTGGTGTAAAATAGTGGGCTGTACACACATCACAGCCAGACAGCGGTG
TTGATTGAGACACTCTGTGCCCTGGGGCTCAGTGCCGCTGGTCTGCTTGAACATCTAC
TCAACTCAGAATGAAGTAGTGCAGCACTGGCTGAGGCTGGAGTTGCAGTGTTCGCTTGG
AAGGGCGAGTCAGAAGATGACTTCTGGTGGTGTATTGACCCTGTGTGAACATGGATGGG
TGGCAGGCCAACATGATCCTGGATGATGGGGGAGACTTAACCCACTGGGTTTATAAGAAG
TATCCAAACGTGTTAAGAAGATCCGAGGCATTGTGGAAGAGAGCGTGACTGGTGTTCAC
AGGCTGTATCAGCTCTCCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACGTCAATGAT
TCTGTTACCAAACAGAAGTTTGATAACTTGTACTGCTGCCGAGAATCCATTTTGGATGGC
CTGAAGAGGACCACAGATGTGATGTTTGGTGGGAAACAAGTGGTGGTGTGTGGCTATGGT
GAGGTAGGCAAGGGCTGCTGTGCTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACC
GAAATCGACCCCATCTGTGCTCTGCAGGCTGTATGGATGGGTTTCAAGGTTGTAAGGTA
AATGAAGTCATCCGGCAAGTGTGATGCGTAATAACTTGCACAGGAAATAAGAATGTAGTG
ACACGGGAGCACTTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATGGGCCACTCC
AACACAGAAATCGATGTGACCAAGCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGT
TCTCAGGTGGACCATGTATCTGGCCAGATGGCAAACGAGTTGTCTCTGGCAGAGGGT
CGTCTACTCAATTTGAGCTGCTCCACAGTTCACCTTTTGTCTGTCATCACAGCCACA
ACACAGGCTTTGGCACTGATAGAACTCTATAATGCACCCGAGGGGCGATACAAGCAGGAT
GTGTACTTGCTTCTAAGAAAATGGATGAATACGTTGCCAGCTTGCATCTGCCATCATT
GATGCCACCTTACAGAGCTGACAGATGACCAAGCAAAATATCTGGGACTCAACAAAAT
GGGCCATTCAAACCTAATTATTACAGATACTAA
    
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Clone variation with respect to NM_006621.5
1053 c=>t

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006621 unedited
GGCCGCGCGGGCAGGCGGGCGGGCGCCAGAGTGGGGANNGATGCCGGGGCGGGGGTCCAG
CCGCTTGGCCGGGCGGGCGGGGAATGTCGATGCCTGACGCGATGCCGCTGCCCGGGGTC
GGGGAGGAGCTGAAGCAGGCCAAGGAGATCGAGGACGCCGAGATGTAATCCTTTCATGGCC
ACCGTACCAAGGCGCCCAAGAAGCAAAATCCAGTTTGTGATGACATGCAGGAGTTCACC
AAATCCCCACAAAACCTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCTCCACT
GACAGCTACAGTTCAGCTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCCGA
GAGAAGCAGCAAACCAACTCCAAGGCGAGCAGCAATTTCTGTGTGAAGAACATCAAGCAG
GCAGAATTTGGACGCCGGGAGATTGAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCA
CTCAGGAAACGTGCTCAGGGGGAGAAAGCCCTTGGCTGGTGTAAAATAGTGGGCTGTA
CACACATCACAGCCAGACAGCGGTGTTGATTGAGACACTCTTGTGCCCTGGGGGGCTCA
NTGCCCGCTTGGTCTGCTTGTAAACATCTACTCAACTCAGAATGAANTAGTGCAGCACTG
GCTGAGGCTTGTGTTGCAAGTGGTTCNTTGGGAAGGGCGAGTCAAAAANGACTTNTGGG
GGNGTATTGACCCCTGGGTGACATGGATNGGGGGGCAGGCCACCATGATCCTGGATG
AGGGGGGGGAAAATTAACCCNCTGGGGTTTTAAAAATTCAAACGGGTTAAAAAAAACC
AGGCTTTTGGNAAAAAGGGNNNGGGTTANAAGCTTTTAACTTTCANTNGAAAAANT
TTNTTCCGCCNANCAAAAAATTTTTTCAAAAAAATTTTAAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006621 unedited TGGGGGATGGGCAACTTCCCAGGTCCAGGCAAAGGCCTGGGGGAGGGTCACAGGGCATGC CACACCGGGCATCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTT TTTTTTTTTTTTTTTTGGACAACAGAAATAAATCCTAGAGGACAAAATTAACCTCAATAG AGTGTAGTCTAGTTAAAACTCGAAAAAGCAAGTCTGGTGGGAGTGGAGGAAGGGCTA TACTATAAATCCAAGTGGGCCTCCTGATCTTAACAAGCCATGCTCATTATACACATCTCT GAACTGGACATAACCACCTTTACGCAGAAACAGGGCTTGGAACTTCTAAGGAAATTAAC ATGCACCACCCACATCTAACCTACCTGCCGGGTAGGTACCATCCCTGCTTCTCTGAAGAA GTGAAAGAGCACTGATTTTCAGCAGCTAAGAAATGGGCTCTTTAAGGCGATTTAGACATT GCAGATTGTTCCACAGAGAAGGGACCTTAGCATTTCCTGTTAATAAGGTACCTAATTAAG ACTAAAGTCCCCAGAAATGGTATAGAAAGAATCACCTTCTGGGCTGGGAGAGTAAATC CTTCTTTAGTGACTAGAGTGAGGAACCCTGAACTTTTATTTTAAAGAGCCATGAA CATGTTCTGGTGGTCTGCAANACTTGGGATATTGAGATGAAAAACAGGAATGAGAT TATAGGAAAAAATCCAGAGGAAAGTTAAGAACAAAATCAAGGTATCTTAAAAATTTCT TTAAATGGTGGTCAAGTGGACTGGCCCTGGGAAAATGGGCCATTAGATCTGTA AGGGTGAAGGCCATTTTTGTGAGACCAATTTTCGTN
Restriction Sites:	NotI-NotI
ACCN:	NM_006621
Insert Size:	2210 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).
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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_006621.3 , NP_006612.2
RefSeq Size:	2677 bp
RefSeq ORF:	1593 bp
Locus ID:	10768
UniProt ID:	O43865
Cytogenetics:	1p13.3
Domains:	AdoHcyase
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways, Selenoamino acid metabolism

Gene Summary:

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]

Transcript Variant: This variant (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.