

Product datasheet for **RG232830**

AHCYL1 (NM_001242674) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL1 (NM_001242674) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AHCYL1
Synonyms:	DCAL; IRBIT; PPP1R78; PRO0233; XPVKONA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232830 representing NM_001242674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGAGTTACCAAATTCGCCACAAAACCTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCT
 CCACTGACAGCTACAGTTCAGCTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCGAGAGAA
 GCAGCAAACCAACTCCAAGGGCAGCAGCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGC
 CGGGAGATTGAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGAGA
 AGCCCTTGGCTGGTGCTAAAATAGTGGCTGTACACACATCACAGCCAGACAGCGGTGTTGATTGAGAC
 ACTCTGTGCCCTGGGGCTCAGTCCGCTGGTCTGCTTGAACATCTACTCAACTCAGAATGAAGTAGCT
 GCAGCACTGGCTGAGGCTGGAGTGCAGTGTTCGCTTGAAGGGCGAGTCAGAAGATGACTTCTGGTGGT
 GTATTGACCGCTGTGTAACATGGATGGTGGCAGGCCAACATGATCCTGGATGATGGGGGAGACTTAAC
 CCACTGGGTTTATAAGAAGTATCCAAACGTGTTTAAGAAGATCCGAGGCATTGTGAAGAGAGCGTGACT
 GGTGTTACAGGCTGTATCAGCTCTCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACGTCAATGATT
 CTGTTACCAAACAGAAGTTTGATAAATTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGAGGAC
 CACAGATGTGATGTTGGTGGGAAACAAGTGGTGGTGTGTGGCTATGGTGGAGTAGGCAAGGGCTGCTGT
 GCTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCC
 GCATGGATGGGTTTCAGGGTGGTAAAGCTAAATGAAGTCATCCGGCAAGTCGATGTCGTAATAACTTGCAC
 AGGAAATAAGAATGTAGTGACACGGGAGCACTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATG
 GGCCACTCCAACACAGAAATCGATGTGACCAGCCTCCGCACTCCGAGCTGACGTGGGAGCGAGTACGTT
 CTCAGTGGACCATGTCATCTGGCCAGATGGCAAACGAGTTGTCCTCTGCAGAGGGTCTACTCAA
 TTTGAGCTGCTCCACAGTCCACCTTTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGATA
 GAACTCTATAATGCACCCGAGGGCGATACAAGCAGGATGTACTTGTCTCCTAAGAAAATGGATGAAT
 ACGTTGCCAGCTTGCATCTGCCATCATTTGATGCCACCTTACAGAGCTGACAGATGACCAAGCAAATA
 TCTGGGACTCAACAAAAATGGGCCATTCAACCTAATTATTACAGATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232830 representing NM_001242674
 Red=Cloning site Green=Tags(s)

MQEFTKFPKTKGRRSLRSISQSSTDSYSSAASYTSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGR
 REIEIAEQDMSALISLRKRAQGEKPLAGAKIVGCTHITAQTAVLIETLCALGAQCRWSACNIYSTQNEVA
 AALAEAGVAVFAWKGESEDDFWCIDRCVNMDGWQANMILDDGGDLTHWVYKYPNVFKKIRGIVEESVT
 GVHRLYLQSKAGKLCVPAMNVNDSVTKQKFDNL YCCRESILDGLKRTTDMVMFGGKQVVVCGYGEVKGCC
 AALKALGAIYVITEIDPICALQACMDGFRVVKLNEVIRQVDVITCTGNKNVVTREHLDRMKNSCIVCNM
 GHSNTEIDVTSRLRPEL TWERVRSQVDHVIWPDGKRVVLLAEGRLLNLSCSTVPTFVLSITATTQALALI
 ELYNAPEGRYKQDVYLLPKMDEYVASLHLPFD AHL TELTDDQAKYLGLNKNPFPKPNYYRY

TRTRPLE - GFP Tag - V

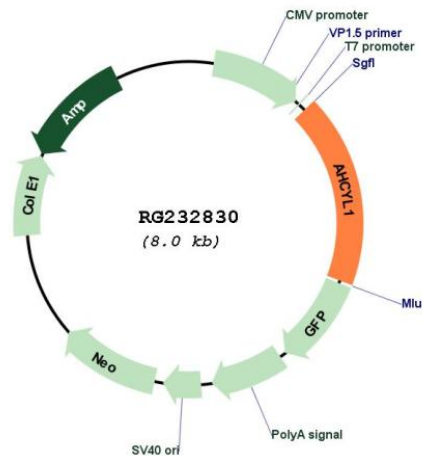
Restriction Sites:

Sgfl-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).

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:	<u>NM_001242674.1</u> , <u>NP_001229603.1</u>
RefSeq Size:	3690 bp
RefSeq ORF:	1452 bp
Locus ID:	10768
UniProt ID:	<u>O43865</u>
Cytogenetics:	1p13.3
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]