

## Product datasheet for **RG232829**

### AHCYL1 (NM\_001242673) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL1 (NM_001242673) 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:**

>RG232829 representing NM\_001242673  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGAGTTACCAAATTCGCCACAAAACCTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCT  
 CCACTGACAGCTACAGTTCAGCTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCGAGAGAA  
 GCAGCAAACCAACTCCAAGGGCAGCAGCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGC  
 CGGGAGATTGAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGAGA  
 AGCCCTTGGCTGGTGCTAAAATAGTGGCTGTACACACATCACAGCCAGACAGCGGTGTTGATTGAGAC  
 ACTCTGTGCCCTGGGGCTCAGTCCGCTGGTCTGCTTGAACATCTACTCAACTCAGAATGAAGTAGCT  
 GCAGCACTGGCTGAGGCTGGAGTGCAGTGTTCGCTTGAAGGGCGAGTCAGAAGATGACTTCTGGTGGT  
 GTATTGACCGCTGTGTAACATGGATGGTGGCAGGCCAACATGATCCTGGATGATGGGGGAGACTTAAC  
 CCACTGGGTTTATAAGAAGTATCCAAACGTGTTAAGAAGATCCGAGGCATTGTGAAGAGAGCGTGACT  
 GGTGTTACAGGCTGTATCAGCTCTCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACGTCAATGATT  
 CTGTTACCAAACAGAAGTTTGATAAATTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGAGGAC  
 CACAGATGTGATGTTGGTGGGAAACAAGTGGTGGTGTGTGGCTATGGTGAAGTAGGCAAGGGCTGCTGT  
 GCTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCC  
 GCATGGATGGGTTTCAAGGTTAAAGCTAAATGAAGTCAATCCGGCAAGTCGATGTCGTAATAACTTGCAC  
 AGGAAATAAGAATGTAGTGACACGGGAGCACTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATG  
 GGCCACTCCAACACAGAAATCGATGTGACCAGCCTCCGCACTCCGAGCTGACGTGGGAGCGAGTACGTT  
 CTCAGTGGACCATGTCATCTGGCCAGATGGCAAACGAGTTGTCCTCTGCAGAGGGTCTACTCAA  
 TTTGAGCTGCTCCACAGTCCACCTTTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGATA  
 GAACTCTATAATGCACCCGAGGGCGATACAAGCAGGATGTACTTGTCTCCTAAGAAAATGGATGAAT  
 ACGTTGCCAGCTTGCATCTGCCATCATTTGATGCCACCTTACAGAGCTGACAGATGACCAAGCAAATA  
 TCTGGGACTCAACAAAAATGGGCCATTCAACCTAATTATTACAGATAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232829 representing NM\_001242673  
 Red=Cloning site Green=Tags(s)

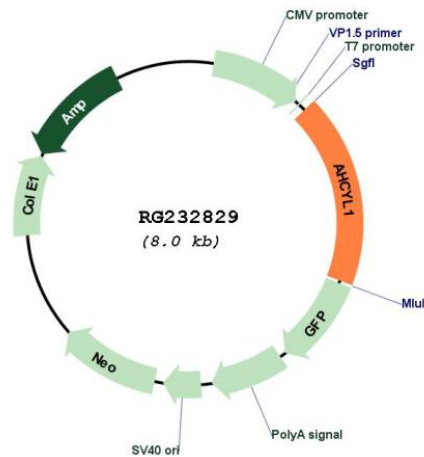
MQEFTKFPTKTGRRSLSRISQSSTDSYSSAASYDSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGR  
 REIEIAEQDMSALISLRKRAQGEKPLAGAKIVGCTHITAQTAVLIETLICALGAQCRWSACNIYSTQNEVA  
 AALAEAGVAVFAWKGESEDDFWCIDRCVNMDGWQANMILDDGGDLTHWVYKYPNVFKKIRGIVEESVT  
 GVHRLYLQSKAGKLCVPAMNVNDSVTKQKFDNL YCCRESILDGLKRTTDMVFGGKQVVVCGYGEVKGCC  
 AALKALGAIYVITEIDPICALQACMDGFRVVKLNEVIRQVDVITCTGNKNVVTREHLDRMKNSCIVCNM  
 GHSNTEIDVTSRLRPELTWERVRSQVDHVIWPDGKRVVLLAEGRLLNLSCSTVPTFVLSITATTQALALI  
 ELYNAPEGRYKQDVYLLPKMDEYVASLHLPFD AHL TELTDDQAKYLGLNKNPFPKPNYYRY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001242673

**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_001242673.1</a></u> , <u><a href="#">NP_001229602.1</a></u>
<b>RefSeq Size:</b>	4320 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>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]