

Product datasheet for **RG201940**

AHCYL1 (NM_006621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL1 (NM_006621) 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:

>RG201940 representing NM_006621
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGCGCC

ATGTCGATGCCTGACCGGATGCCGCTGCCCGGGTTCGGGGAGGAGCTGAAGCAGGCCAAGGAGATCGAGG
 ACGCCGAGAAGTACTCCTTCATGGCCACCGTACCAAGGCGCCCAAGAAGCAAATCCAGTTTGTGATGA
 CATGCAGGAGTTCACCAAATCCCCACCAAACTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCC
 TCCACTGACAGCTACAGTTCAGCTGCATCCTACACAGATAGCTCTGATGATGAGGTTTCTCCCGAGAGA
 AGCAGCAAACCAACTCCAAGGGCAGCAGCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAAATTTGGACG
 CCGGGAGATTGAGATTGCAGAGCAAGACATGTCTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGGAG
 AAGCCCTGGCTGGTGTAAAAAGTGGGCTGTACACACATCACAGCCAGACAGCGGTGTTGATTGAGA
 CACTCTGTGCCCTGGGGCTCAGTGCCGCTGGTCTGCTTGAACATCTACTCAACTCAGAATGAAGTAGC
 TGCAGCACTGGCTGAGGCTGGAGTGCAGTGTTCGCTTGAAGGGCGAGTCAGAAGATGACTTCTGGTGG
 TGTATTGACCGCTGTGTGAACATGGATGGTGGCAGGCCAACATGATCCTGGATGATGGGGGAGACTTAA
 CCCACTGGGTTTATAAGAAGTATCCAAACGTGTTAAGAAGATCCGAGGCATTGTGGAAGAGAGCGTGAC
 TGGTGTTCACAGGCTGTATCAGCTCTCCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACGTCAATGAT
 TCTGTTACCAAACAGAAGTTTGATAACTTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGAGGA
 CCACAGATGTGATGTTTGGTGGGAACAAGTGGTGGTGTGTGGCTATGGTGAAGTAGGCAAGGGCTGCTG
 TGCTGCTCTCAAAGCTCTGGAGCAATGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCC
 TGCATGGATGGTTCAGGGTGGTAAAGCTAAATGAAGTCATCCGCAAGTCGATGTCGTAATAACTTGA
 CAGGAAATAAGAATGTAGTGACACGGGAGCACTGGATCGCATGAAAAACAGTTGATCGTATGCAATAT
 GGGCCACTCCAACACAGAAATCGATGTGACCAGCCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGT
 TCTCAGGTGGACCATGTATCTGGCCAGATGGCAAACGAGTTGTCTCCTGGCAGAGGGTCTGCTACTCA
 ATTTGAGCTGCTCCACAGTTCACCTTTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGAT
 AGAACTCTATAATGCACCCGAGGGGCGATACAAGCAGGATGTGTACTTGTCTTCTAAGAAAATGGATGAA
 TACGTTGCCAGCTTGCATCTGCCATCATTTGATGCCACCTTACAGAGCTGACAGATGACCAAGCAAAT
 ATCTGGGACTCAACAAAATGGGCCATTCAAACCTAATTATTACAGATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201940 representing NM_006621
 Red=Cloning site Green=Tags(s)

MSMPDAMPLPGVGEELKQAKEIEDAEKYSFMATVTKAPKKQIQFADDMQEFKFPKTKGRRSLSRISQS
 STDSYSSAASYTDSDDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGRREIEIAEQDMSALISLRKRAQGE
 KPLAGAKIVGCTHITAQTAFLIETLALGAQCRWSACNIYSTQNEVAAALAEAGVAVFAWKGESEDDFWW
 CIDRCVNMDDGWQANMILDDGDLTHWVYKYPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPMNVND
 SVTKQKFDNLYCCRESILDGLKRTTDVMFGGKQVVVCGYGEVKGCCAALKALGAIYYITEIDPICALQA
 CMDGFRVVKLNEVIRQVDVITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVTSLRPELTWERVR
 SQVDHVIWPDGKRVLLAEGRLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDE
 YVASLHLPFSDAHLTELDDQAKYLGLNKNPFPKNYYRY

TRTRPLE - GFP Tag - V

Restriction Sites:

Ascl-MluI

ACCN:	NM_006621
ORF Size:	1590 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:	NM_006621.7
RefSeq Size:	4024 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]