

Product datasheet for **RG204540**

AHCYL2 (NM_015328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL2 (NM_015328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AHCYL2
Synonyms:	ADOHCYASE3; IRBIT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204540 representing NM_015328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTGCAGGTTGTGTGTCAGCCGCGGCTGCCGCCAAGGTGCCTGAGGTGGAGCTGAAGGACCTGAGCC
 CCTCCGAGGCGGAGTCGCAACTAGGACTGAGCACGGCCGCGTGGGCGCCATGGCCCCCGGCGGGCGG
 TGGAGACCCTGAGGCTCCAGCTCCCGCCGCGGAGCGGCCCGGTCCCGGCCGGGCTCGGGGCCCGCC
 GCCGCTCTCAGCCCCGCCCGGGAAGGTGCCTCAGGCGTCGGCCATGAAGCGGAGCGACCCACATCACC
 AGCACCAGCGCACCGCGACGGCGGCGAGGCCCTGGTCAGCCCCGACGGCACCGTCACCGAGGCGCCCGG
 CACAGTCAAGAAGCAGATCCAGTTTGTGACCAGAAGCAAGAATCAACAAACGTCACCAAAAATTGGA
 CGTCGCTCTTTGTCTCGTTCCATTTCTCAGTCATCTACTGACAGCTACAGCTCAGCGGCTTCATATACAG
 ATAGCTCTGATGATGAGACATCGCCAGGGACAAGCAGCAAAAGAAGCTAAGGGAAGCAGTGACTTCTG
 TGTTAAGAACATCAAACAGGCAGAGTTTGGACGAAGAGAAATGAAATTGCTGAACAAGAAATGCCTGCA
 TTGATGGCTTTGAGGAAGAGAGCTCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATCGTGGGTTGCACAC
 ACATCACTGCTCAGACTGCTGTGCTTATGAAAACCTCTGGGTGCTCTGGGGGCCAGTGCCGATGGGCTGC
 CTGCAACATCTATTCCACTCTCAATGAAGTGGCTGCTGCTTAGCAGAAAGTGGATTTTCTGTTTTTGGC
 TGGAAGGGAGAGTCAGAAGATGACTTTTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGGCAGC
 CAAACATGATCTTGGATGATGGAGGGGATCTTACCCACTGGATTTATAAAAAAGTATCCCAACATGTTTAA
 GAAAATCAAGGCATAGTAGAGGAGAGTGTACTGGAGTTCACAGGCTGTACCAACTGTCCAAAGCTGGG
 AAGCTGTGTGTTCCAGCCATGAATGTCAATGACTCAGTCACCAAAACAGAAATTTGACAACCTCTACTGTT
 GCCGTGAATCAATTCTTGATGGACTTAAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGTAGT
 CTGTGGCTATGGAGAGGTGGGGAAGGGTGTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTA
 ACTGAAATTGACCCCATCTGTGCCCTGCAAGCCTGTATGGATGGATTTGACTGGTGAATTAATGAGG
 TCATCCGACAAGTGGACATTGTTATTACCTGTACAGGTAACAAGAATGTGGTAACACAGAGACTTGGGA
 CCGTATGAAGAATAGCTGCATCGTTTGAACATGGGACATTCCAACACAGAGATTGACGTGGCGAGTCTG
 CGGACACCAGAAGTACCTGGGAGCGAGTGAGATCTCAAGTTGACCATGTGATATGGCCTGATGGCAAGA
 GGATAGTACTGCTGGCAGAGGGCCGCTGCTGAACCTTAGCTGCTCCACAGTGCCTACATTTGTGCTCTC
 AATCACTGCTACTACTCAGGCTCTTGCCTTGATAGAGCTTACAATGCTCCTGAGGGTCGCTATAAGCAG
 GATGTCTACCTGTGCCAAGAAGATGGATGAGTATGTGGCCAGCCTACACCTGCCTACCTTTGATGCC
 ACTTGACAGAGCTGACAGATGAACAGGCCAAGTATCTGGGACTCAACAAGAAATGGGCCCTCAAGCCTAA
 TTACTACAGGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204540 representing NM_015328
 Red=Cloning site Green=Tags(s)

MSVQVVSAAAAQVPEVELKDLSPSEAESQLGLSTAAVGAMAPPAGGGDPEAPAPAAERPPVPGSGPA
 AALSPAAGKVPQASAMKRSPPHHQHRHRDGGREALVSPDGTVTEAPRTVKKQIQFADQKQEFNKRPTKIG
 RRSLRSISQSSTDSYSSAASYTDSDDETSPPDKQQKNSKGSSDFCVKNIKQAEFGRREIEIAEQEMPA
 LMALRKRAQGEKPLAGAKIVGCTHITAQTAVLMETL GALGAQCRWAACNIYSTLNEVAAAALAESGFPVFA
 WKGESEDDFWWCIDRCVNVVEGWQPNMILDDGGDLTHWIYKYPNMFKKIKGIVEESVTGVHRLYQLSKAG
 KLCVPAAMNVNDSVTQKQFDNLYCCRESILDGLKRTTDMMFGGKQVVVCGYGEVKGCCCAALKAMGSIVYV
 TEIDPICALQACMDGFRLVKLNEVIRQVDIVITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVASL
 RTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQ
 DVYLLPKKMDEYVASHLPTFDAHLTELDEQAKYLGLNKNPFPKNYYRY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_015328.4
RefSeq Size:	5052 bp
RefSeq ORF:	1836 bp
Locus ID:	23382
UniProt ID:	Q96HN2
Cytogenetics:	7q32.1
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 acts as a homotetramer and may be involved in the conversion of S-adenosyl-L-homocysteine to L-homocysteine and adenosine. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]