

Product datasheet for **RG225876**

AHCYL2 (NM_001130722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHCYL2 (NM_001130722) 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:

>RG225876 representing NM_001130722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAGTGGGACGGTAATGAGGGCACCTCAGCTTTTCACATGCCTGAGTGGATGCAGATCCAGTTTG
 CTGACCAGAAGCAAGAATTCAACAAACGTCCCACCAAATGGACGTCGCTCTTTGTCTCGTTCCATTTTC
 TCAGTCATCTACTGACAGCTACAGCTCAGCGGTTTCATATACAGATAGCTCTGATGATGAGACATCGCCC
 AGGGACAAGCAGCAAAAGAACTCTAAGGGAAGCAGTGACTTCTGTGTTAAGAACATCAAACAGGCAGAGT
 TTGGACGAAGAGAAATTGAAATTGCTGAACAAGAAATGCCTGCATTGATGGCTTTGAGGAAGAGAGCTCA
 AGGAGAAAAGCCTTTGGCTGGAGCCAAATCGTGGGTTGCACACACATCACTGCTCAGACTGCTGTGCTT
 ATGGAACTCTGGGTGCTCTGGGGGCCAGTGCCGATGGGCTGCCTGCAACATCTATTCCACTCTCAATG
 AAGTGGCTGCTGCTCTAGCAGAAAGTGGATTTCTGTTTTGCCTGGAAGGGAGAGTCAGAAGATGACTT
 TTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGCAGCCAAACATGATCTTGGATGATGGAGGG
 GATCTTACCCACTGGATTATAAAAAGTATCCCAACATGTTTAAGAAAATCAAGGCATAGTAGAGGAGA
 GTGTTACTGGAGTTCACAGGCTGTACCAACTGTCCAAAGCTGGGAAGCTGTGTGTTCCAGCCATGAATGT
 CAATGACTCAGTCACCAACAGAAATTTGACAACCTCTACTGTTGCCGTGAATCAATTCTTGATGGACTT
 AAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGGTAGTCTGTGGCTATGGAGAGGTGGGAAAAG
 GGTGCTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTAAGTAAATGACCCCATCTGTGCCCT
 GCAAGCCTGTATGGATGGATTTGACTGGTGAATTAATGAGGTCATCCGACAAGTGGACATTGTATT
 ACCTGTACAGGTAACAAGAATGTGGTAACAGAGAGCACTTGGACCGTATGAAGAATAGCTGCATCGTTT
 GTAACATGGGACATTCACACAGAGATTGACGTGGCAGTCTGCGGACACCAGAAGTGCCTGGGAGCG
 AGTGAGATCTCAAGTTGACCATGTGATATGGCCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGC
 CTGCTGAACCTTAGCTGCTCCACAGTGCCTACATTTGTGCTCTCAATCACTGCTACTACTCAGGCTCTTG
 CCTTGATAGAGCTTTACAATGCTCCTGAGGGTCGCTATAAGCAGGATGTCTACCTGTTGCCCAAGAAGAT
 GGATGAGTATGTGGCCAGCCTACACCTGCCTACCTTTGATGCCCACTTGACAGAGCTGACAGATGAACAG
 GCCAAGTATCTGGGACTCAACAAGAAATGGGCCCTTCAAGCCTAATTACTACAGGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225876 representing NM_001130722
 Red=Cloning site Green=Tags(s)

MEKWDGNEGTSAFHMPPEWMQIQFADQKQEFNKRPTKIGRRSLRSISQSSTDSYSSAASYTDSDDDETSP
 RDKQQKNSKSSDFCVKNIKQAEFGRREIEIAEQEMPALMALRKRAQGEKPLAGAKIVGCTHITAQTAVL
 METLGALGAQCRWAACNIYSTLNEVAAALAESGFVPVFAWKGESEDDFWWCIDRCVNVGEGWQPNMILDDGG
 DLTHWIYKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCRESILDGL
 KRRTDMMFGGKQVVVCGYGEVKGCCAALKAMGSIYVYVTEIDPICALQACMDGFRLVKLNEVIRQVDIVI
 TCTGNKNVVTREHLDRMKNSCIVCNMHSNTEIDVASLRPELTWERVRSQVDHVIWPDGKRIVLLAEGR
 LLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPFD AHL TEL TDEQ
 AKYLGLNKNPFPKPNYYRY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001130722

ORF Size: 1527 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:

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_001130722.1](#), [NP_001124194.1](#)

RefSeq Size: 5064 bp

RefSeq ORF: 1527 bp

Locus ID: 23382

UniProt ID: [Q96HN2](#)

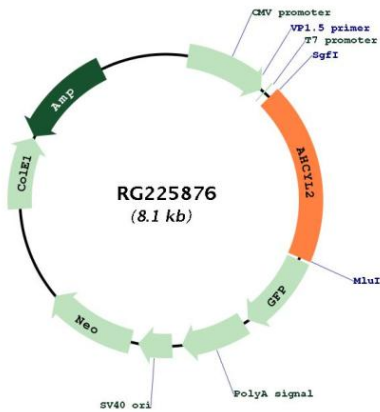
Cytogenetics: 7q32.1

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]

Product images:



Circular map for RG225876