

Product datasheet for **SC302973**

ADCY9 (NM_001116) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADCY9 (NM_001116) Human Untagged Clone
Tag: Tag Free
Symbol: ADCY9
Synonyms: AC9; ACIX
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001116, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTCCCCACCCACCAGCAGCTGCTGCATCACCACAGCACCGAGGTGAGCTGCGAC
TCCAGCGGGGACAGCAACAGCGTGCGCGTCAAGATCAACCCCAAGCAGCTGTCTCCAAC
AGCCACCCCAAGCACTGCAAATACAGCATCTCCTCTAGCTGCAGCAGCTCTGGGGACTCC
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CAGCTGTTGAGAGGGCCTCCAGCCGCTGGTGGGACCCCAAGTTCGACTCGGTGAACCTG
GAGGAGGCTGCCTGGAGCGCTGCTTCCCGCAGACCCAGCGCCGTTCCGGTATGCGCTC
TTCTACATCGGCTTCGCCTGCCTTCTGTGGAGCATCTATTTGCGGTCCACATGAGATCC
AGACTGATCGTCATGGTGCACCCCGCGCTGTGCTTCTCCTGGTGTGTGGGCTTCTTT
CTGTTTACCTTACCAAGCTGTACGCCCGCATTACGCGTGGACCTCGCTGGCTCTCACC
CTGCTGGTGTTCGCCCTGACCCTGGCTGCGCAGTTCAGGTCTTGACGCCTGTCTCAGGA
CGCGGGGACAGCTCCAACCTTACGGCCACAGCCCGGCCACAGATACTTGCTTATCTCAA
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TGCAGCTGTGCAGAGGCCTTGCTTTCTGGCTTTGAGGTCAATTGACGGCTCACAGGTGTCC
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 TCTGAAGCCGGCGCCGAGGGAGGAGCACCTCAAAACGGCTGCCAAGACGAGCATAAAAC
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 TTCAAGTCCGCGTCGGCTTCAACCATGGGCCCTCACGGCCGGGTTCATCGGCACCACC
 AAGCTGCTGTACGACATCTGGGAGACACCGTCAACATCGCCAGCAGGATGGACACCACC
 GCGTGGAGTGCCGCATCCAGGTGAGCGAAGAGAGCTACCGCGTCTTGAAGCAAGATGGGC
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 CTGGTGCCTTCTGTCCAGTATGTGGACAAGACATCTCTGGGTTCTGACAGCAGCACGCG
 GCCAAGGATGCCACCTGTCCCCAAGAGACCGTGAAGGAGCCCGTCAAAGCCGAAGAA
 AGGGTTCGATTTGGCAAAGCCATAGAGAAAGACGACTGTGACGAAACAGGAATAGAAGAA
 GCCAACGAACTACCAAGCTCAACGTTTTCAAAGAGTGTGTGA

Restriction Sites:

Please inquire

ACCN:

NM_001116

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001116.2](#), [NP_001107.2](#)

RefSeq Size: 7732 bp

RefSeq ORF: 4062 bp

Locus ID: 115

UniProt ID: [O60503](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Vascular smooth muscle contraction, Vibrio cholerae infection

Gene Summary:

Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. It is regulated by a family of G protein-coupled receptors, protein kinases, and calcium. The type 9 adenylyl cyclase is a widely distributed adenylyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin. [provided by RefSeq, Jul 2008]