

Product datasheet for **SC337338**

ADCY7 (NM_001286057) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY7 (NM_001286057) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY7
Synonyms:	AC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001286057, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGCCAAGGGGCGCTACTTCCTCAACGAGGGCGAGGAGGGCCCTGACCAAGATGCGCTCTACGAGA
AGTACCAGCTCACCAGCCAGCATGGGCCGCTGCTGCTCACGCTCCTGCTGGTGGCCGCACTGCCTGCGT
GGCCCTCATCATATTGCCTTCAGCCAGGGGGACCCCTCCAGACACCAGGCCATTCTGGGCATGGCGTTC
CTGGTGTGGCGGTGTTTGCGGCCCTCTCTGTGCTGATGTACGTGAGTGTCTCCTGCGGCCTGGCTCA
GGCCCTTGGCGCTGCTCACCTGGCCCTGCTTGGTGGCGCTGGGCTATGTGCTGGTGTTCGACGCATGGAC
AAAGGCGGCTGTGCGTGGGAGCAGGTGCCCTTCTCCTGTTTATTGTCTTCGTGGTGTACACACTACTG
CCCTTCAGCATGCGGGGCGCTGTCGCCGTTGGGGCCGCTCCACTGCCTCCCACCTCCTGGTGTGCGTT
CTTTGATGGGAGGCTTACGACACCCAGTGTCCGGGTGGGGTGCAGCTGCTGGCCAACGCAGTCATCTT
CCTGTGTGGGAACCTGACAGGCGCCTCCACAAGCACC AATGCAGGATGCGTCCCGGACCTTTCACC
TACACTGTGAAGTGCATCCAGATCCGCCGAAGCTGCGCATCGAGAAGCGCCAGCAGGAGAACCTGCTGC
TGTGAGTGTCCGGCCACATCTCCATGGGCATGAAGCTGGCCATCATCGAACGGCTCAAGGAGCATGG
TGACCGTGTGATGCCTGACAACAATTCCACAGCCTTACGTCAAGAGGCCAGCAATGTCAGCATC
CTCTATGCGGACATCGTGGGCTTACGCAGCTGGCCAGCGACTGTTCTCCAAGGAGCTGGTGGTGGTGC
TGAATGAGCTCTTTGGCAAGTTCGACCAGATCGCCAAGGCCAACGAGTGCATGCGAATCAAGATCCTCGG
CGACTGTACTACTGTGTATCGGGCCTGCCCGTGTGCTGCTACCCACGCCCGAACTGCGTGAAGATG
GGGCTGGACATGTGCCAGGCCATCAAGCAGGTGCGGGAGGCCACGGGCGTGGACATCAACATGCGTGTGG
GCATACACTCGGGGAATGTGCTGTGCGGGTTCATCGGGCTGCGCAAGTGGCAGTATGACGTGTGGTCCCA
CGACGTGTCCCTGGCCAACCGGATGGAGGCAGCCGGAGTACCCGGCCGGGTGCACATCACGGAGGCCACG
CTAAAGCACCTGGACAAGGCGTACGAGGTGGAGGATGGGCACGGGCAGCAGCGGGACCCCTACCTCAAGG
AGATGAACATCCGCACCTACCTGGTTCATCGACCCCGGAGCCAGCAGCCACCCCGCCAGCCAACACCT
CCCCAGGCCCAAGGGGGACGCGGCCCTGAAGATGCGGGCGTCAGTGCATGACCCGGTACCTCGAGTCC
TGGGGGGCGGCACGGCCCTTTCACATCTCAACCACCGTGAAGCGTGAAGCGTGAAGCGTGAAGCGTGAAGCGT
CCAACGGGCGGAGGCCTAAGAGCGTTCCCGAGCGCCACCGCCGACCCAGACAGAAGCATGTCCCCCAA
GGGGCGGTGCGGAGGATGACTCGTACGATGACGAGATGCTGTGAGCATTGAGGGGCTCAGCTCCACGAGG
CCCTGCTGCTCAAGTCCGATGACTTCTACACCTTTGGGTCCATCTTCTGGAGAAGGGCTTTGAGCGG
AGTACCGCTGGCACCCATCCCCGGGCGCCACGACTTTGCTGCGCCAGCCTGATCTTCGTCTGCAT
CCTGCTGCTCATGCTGCTCATGCCAGGACGGCGGCACTGGGTGTGCTTCCGGGCTGGTGGCCTGT
GTACTGGGGCTGGTGTGGCCCTGTGCTTTGCCACCAAGTTCTCGAGGTGCTGCCAGCTCGGGGACGC
TCTGCACTATCTGAGAGGGTGGAGACACAGCCCTGCTGAGGCTGACCCTGGCCGCTCCTGACCATCGG
CAGCCTGCTCACTGTGGCCATCATCAACCTGCCCTGATGCCTTTCCAAGTTCAGAGCTGCCTGTTGGC
AATGAGACAGGCCTACTGGCCGCGAGCAGAAGACAAGAGCCCTGTGTGAGCCCCCTCCCGCACCTGCATA
CTGTTTTTCCCGTTTAAATGAGCTCACTTCATAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286057
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:	<u>NM_001286057.1, NP_001272986.1</u>
RefSeq Size:	2582 bp
RefSeq ORF:	2205 bp
Locus ID:	113
Cytogenetics:	16q12.1
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
Gene Summary:	<p>This gene encodes a membrane-bound adenylate cyclase that catalyses the formation of cyclic AMP from ATP and is inhibitable by calcium. The product of this gene is a member of the adenylyl cyclase class-4/guanylyl cyclase enzyme family that is characterized by the presence of twelve membrane-spanning domains in its sequences. Several transcript variants have been observed for this gene, but the full-length natures of only two have been determined so far. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1.</p>