

Product datasheet for **SC309987**

ADCY7 (NM_001114) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ADCY7 (NM_001114) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ADCY7 |
| Synonyms: | AC7 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene sequence for NM_001114 edited
GCCAAGGGTGGAGGATGCCAGCCAAGGGGCGCTACTTCCTCAACGAGGGGCGAGGAGGGCC
CTGACCAAGATGCGCTCTACGAGAAGTACCAGCTCACCAGCAGCATGGGCGCTGCTGC
TCACGCTCCTGCTGGTGGCCGCCACTGCCTGCGTGGCCCTCATCATCATTGCCTTCAGCC
AGGGGGACCCCTCCAGACACCAGGCCATTCTGGGCATGGCGTTCCTGGTGTGGCGGTGT
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GGACAAAGGGCGGCTGTGCGTGGGAGCAGGTGCCCTTCTCCTGTTCATTGTCTTCGTGG
TGTACACACTACTGCCCTCAGCATGCGGGGCGCTGTCGCGGTTGGGGCCGTCTCCACTG
CCTCCCACCTCCTGGTGTCTGGTCTTTTGTGGGAGGCTTCACGACACCCAGTGTCCGGG
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TCCAGATCCGCCGAAGCTGCGCATCGAGAAGCGCCAGCAGGAGAACCTGCTGCTGTGAG
TGCTTCCGGCCACATCTCCATGGGCATGAAGCTGGCCATCATCGAACGGCTCAAGGAGC
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CCCACGAGTGTCCCTGGCCAACCGGATGGAGGCAGCCGGAGTACCCGGCCGGTGCACA
TCACGGAGGCCACGCTAAAGCACCTGGACAAGGCGTACGAGGTGGAGGATGGGCACGGGC
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GGAGCCAGCAGCCACCCCGCCAGCCAACACCTCCCCAGGCCAAGGGGGACGCGGGCC
TGAAGATGCGGGCGTCAAGTGCATGACCCGGTACCTCGAGTCTGGGGGGCGGCACGGC
CCTTTGCACATCTCAACCACCGTGAAGAGCGTGAAGAGTGGTGAAGCCACGTCCCAACG



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GGCGGAGGCTAAGAGCGTTCCCCAGCGCCACCGCCGGACCCAGACAGAAGCATGTCCC
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TCAGCTCCACGAGGCCCTGCTGCTCCAAGTCCGATGACTTCTACACCTTTGGGTCCATCT
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CTGTGATTGCTGGAGTATTGGGGCCCGAAAACCTCAGTATGACATCTGGGGAAACTG
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AGACCTGCACCATCCTCCAGGGCCTCGGGTACTTGTGAATGCCGTGGCCTGATCAACG
TCAAAGGCAAAGGCGAGCTGAGGACTTACTTTGTCTGTACGGACTGCCAAGTTTCAGG
GGCTGGGGCTGAACTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001114
- Insert Size:** 3300 bp
- 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).
- 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).

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| 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_001114.2 , NP_001105.1 |
| RefSeq Size: | 6157 bp |
| RefSeq ORF: | 3243 bp |
| Locus ID: | 113 |
| UniProt ID: | P51828 |
| Cytogenetics: | 16q12.1 |
| Domains: | CYCC |
| 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 (1) represents the longer transcript and encodes the longer isoform (1).</p> |