

Product datasheet for **SC100206**

ADCY4 (NM_139247) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADCY4 (NM_139247) Human Untagged Clone
Tag: Tag Free
Symbol: ADCY4
Synonyms: AC4
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_139247 edited
 GCCCTTGGGGTGAGAAAAGCTCAGGTGGGGCCCGGGCCGAAGGAGGTAACCCGGCG
 CCCGGCCCTAGCCAGCCCCGGGGCTCGGGGCTGGGGAGATCATGGCCCGCCTCTTCAGCC
 CCCGGCCGCCCCAGCGAAGACCTCTTCTACGAGACCTACTACAGCCTGAGCCAGCAGT
 ACCCGCTGCTGCTGCTGCTGCTGGGATCGTGCTCTGTGCGCTCGCGGGCTGCTCGCAG
 TGGCCTGGGCCAGCGGCAGGGAGCTGACCTCAGACCCGAGCTTCTGACCACTGTGCTGT
 GCGCGCTGGGCGGCTTCTCGCTGCTGCTGGCCTCGCTTCCCGGGAGCAGCGACTGCAGC
 GCTGGACGCGTCCCCTGTCCGGCTTGGTATGGGTGCGCTGCTAGCGCTAGGCCACGCT
 TCCTGTTACCGGGGGCTGGTGGAGCGCTGGGACAGGTGTCTATTTTCTCTTCGTC
 TCTTACGGCGTATGCCATGCTGCCCTTGGCATGCGGGACGCCCGCTCGCGGGCTCG
 CCTCCTACTCTGCATCTGCTGGTCTCGGGCTGTATCTTGGGCCACAGCCGGACTCAC
 GGCTGCACTGCTGCCGAGTTGGCAGCAAACGCAAGTGTCTTCTGTGCGGGAACGTGG
 CAGGAGTGTACCAAGGCGCTGATGGAGCGCGCCCTGCGGGCCACGTTCCGGGAGGCAC
 TCAGCTCCCTGCACTCACGCCGGCGGCTGGACACCGAGAAGAAGCACCAGGAACACCTTC
 TCTTGTCCATCCTTCTGCTACCTGGCCCGAGAGATGAAGGCAGAGATCATGGCACGGC
 TGCAGGCAGGACAGGGGTACGGCCAGAGAGCACTAACAATTTCCACAGCCTCTATGTCA
 AGAGGCACCAGGGAGTACGCGTGTGTATGCTGACATCGTGGGCTTACGCGGCTGGCCA
 GCGAGTGTCCCCTAAGGAGCTGGTGTCTCATGCTCAATGAGCTCTTTGGCAAGTTCGACC
 AGATTGCCAAGGAGCATGAATGCATGCGGATCAAGATCCTGGGGACTGTTACTACTGTG
 TCTCTGGGCTGCCACTCTCACTGCCAGACCATGCCATCAACTGCGTGCGCATGGGCTGG
 ACATGTGCCGGGCCATCAGGAACTGCGGGCAGCCACTGGCGTGGACATCAACATGCGTG
 TGGGCGTGCCTCAGGCAGCGTACTGTGTGGAGTATCGGGCTGCAGAAGTGGCAGTACG
 ACGTTTGGTACATGATGTCACTGGCTAACCACATGGAGGCAGGCGGTGTACCAGGGC
 GAGTGCACATCACAGGGGCTACCCTGGCCCTGCTGGCAGGGGCTTATGCTGTGGAGGACG
 CAGGCATGGAGCATCGGGACCCCTACCTTCGGGAGCTAGGGGAGCCTACCTATCTGGTCA
 TCGATCCACGGGCAGAGGAGGAGGATGAGAAGGGCACTGCAGGAGGCTTGTGCTCCTCGC
 TTGAGGGCCTCAAGATGCGTCCATCACTGCTGATGACCCGTTACCTGGAGTCTGGGGCG



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CAGCCAAGCCTTTTGCCACCTGAGCCACGGAGACAGCCCTGTGTCCACCTCCACCCCTC
 TCCCGGAGAAGACCCTGGCTTCCTTCAGCACCCAGTGGAGCCTGGATCGGAGCCGTACCC
 CCCGGGGACTAGATGATGAACTGGACACCGGGATGCCAAGTTCTTCCAGGTCATTGAGC
 AGCTCAACTCGCAGAAACAGTGGAAAGCAGTGAAGGACTTCAACCCACTGACACTGTACT
 TCAGAGAGAAGGAGATGGAGAAAAGTACCGACTCTCTGCAATCCCCGCCTTCAAATACT
 ATGAAGCCTGCACCTTCTGGTTTTCTCTCCAACCTTCATCATCCAGATGCTAGTGACAA
 ACAGGCCCCAGCTCTGGCCATCAGTATAGCATCACCTTCTCTCTCTCTCTCTCTCTCT
 TTTTGTCTGCTTCTCAGAGGACCTGATGAGGTGTGCTGAAAGGCCCAAGATGCTGC
 ACTGGCTGCCTGCACTGTCTGGCCTGGTGGCCACACGACCAGGACTGAGAATAGCCTTGG
 GCACCGCCACCATCCTCCTTGTCTTTGCCATGGCCATTACCAGCCTGTTCTTCTCCCAA
 CATCATCAGACTGCCCTTCCAAGCTCCCAATGTGTCTCCATGATTTCCAACCTCTCT
 GGGAGCTCCCTGGGTCTCTGCCTCTCATCAGTGTCCATACTCCATGCACTGCTGCACGC
 TGGGCTTCT
 TCCTGCTGTGGCTGGCGCATCCTGCTCCCTCTTCTGACATGAGCTTCGAGCTGAAGCTGCTGC
 AATGCCTCATCGTCCGCCTCTATCTGGGCCCTTGGACTCCAGGCCCGGAGTGTGAAGG
 AGCCAAACTGATGGGTGCTATCTCCTTTCATCTTCTTCTTCCACCTCCTTGTCTGG
 CTCGCCAGAATGAGTACTACTGCCGCTGGACTTCTGTGGAAGAAGAAGCTGAGGCAGG
 AGAGGGAGGAGACAGAGACGATGGAGAACCTGACTCGGCTGCTTGGAGAACGTGCTCC
 CTGCACACGTGGCCCCCAGTTCAATGGCCAGAACCGGCCAACGAGGATCTCTACCACC
 AGTCTATGAATGCGTTTGTGTCTCTTTCGCCTCAGTCCCAGACTTCAAGGAGTTCTACT
 CTGAATCCAACATCAATCATGAGGGCTAGAGTGTCTGAGGCTGCTCAATGAGATAATTG
 CTGATTTTGATGAGCTGCTCTCCAAGCCCAAGTTCAGTGGGTGGAGAAGATCAAGACCA
 TCGGCAGCACCTACATGGCAGCCACAGGCTTAAATGCCACCTCTGGACAGGATGCACAAC
 AGGATGCTGAACGAGCTGCAGCCACCTTGGCACTATGGTGAATTTGCCGTGGCCCTGG
 GGTCTAAGCTGGACGTCAACAAGCATTCAACAACAATTCCGCCTGCGAGTGGGGT
 TGAACCATGGACCGTAGTAGCTGGAGTTATTGGGGCCAGAAGCCGCAATATGACATTT
 GGGGCAACACAGTGAACGTGGCCAGCCGATGGAGAGTACAGGAGTCTTGGCAAATCC
 AAGTGACTGAGGAGACAGCATGGGCCCTACAGTCCCTGGGCTACACCTGTACAGCCGGG
 GTGTCAATCAAGGTGAAAGGCAAAGGCCAGCTCTGCACCTACTTCTGAACACAGACTTGA
 CACGAACTGGACCTCCTTCAGCTACCCTAGGCTGAGATTGCACTCGCCTTCTAAGAACC

- Restriction Sites:** Please inquire
- ACCN:** NM_139247
- Insert Size:** 3360 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_139247.2.
- 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_139247.2](#), [NP_640340.2](#)

RefSeq Size: 3320 bp

RefSeq ORF: 3234 bp

Locus ID: 196883

UniProt ID: [Q8NFM4](#)

Cytogenetics: 14q12

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, Taste transduction, Vascular smooth muscle contraction

Gene Summary: This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). Mouse studies show that adenylate cyclase 4, along with adenylate cyclases 2 and 3, is expressed in olfactory cilia, suggesting that several different adenylate cyclases may couple to olfactory receptors and that there may be multiple receptor-mediated mechanisms for the generation of cAMP signals. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.