

Product datasheet for MC223717

Adcy3 (NM_001159537) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adcy3 (NM_001159537) Mouse Untagged Clone
Tag: Tag Free
Symbol: Adcy3
Synonyms: AC3; mKIAA0511
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223717 representing NM_001159537
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAGGAACCAAGGGCTTCTCGGATCCCGAGTACTCGGCAGAGTACTCAGCTGAATACTCGGTCAGCC
 TGCCCTCTGACCCCGACCGGGGTCGGCCGACCCATGAAATTTCTGTGCGGAACCTCGGGTCTGCCT
 GTGCCTGCCTCGCTTTATGCGGCTGACCTTCGTGCCTGAGTCCTTGAGAACCTCTACCAGACCTACTTC
 AAAAGGCAGCGCCATGAGACCCTGCTGGTGTGCTGGTGGTCTTTGCGGCCCTTTGACTGCTACGTGGTAG
 TGATGTGCGCGGTGGTCTTCTCCAGCGACAAGCTGGCGCCCTCATGGTGGCAGGCTTCGGTCTGGTGT
 GGACATCATCCTTTCTGTGCTCTGTAAAAAGGGGCTGCTCCCGGACCGAGTGAGCCGCAAAGTGGTACCC
 TACCTGTGTGGCTGCTCATCTCGGCCAGATCTTCTCTACCTGGGCCTGAACCTTTTACGGGCCACG
 CAGCCAGTGACTGTGGGTGGCAGGCTTTCTTTGTCTTCTCCTTTCATAACGCTGCCCTCAGCCT
 CAGCCCCATCGTGATCATCTCTGTGGTCTCCTGTGTTGTGCACACGCTTGTGTTGGGGTCACTGTGGCC
 CAGCAGCAGCAGGATGAGCTGGAAGGGATGCAGCTGCTGAGGGAGATCCTGGCCAACGCTTCTCCTACCC
 TGTGTGCTATCATCGTGGGCATCATGCTCTACTACATGGCAGACCGCAAGCAGGCTTCTCCTGGA
 GGCCCGCAGTCACTGGAGGTGAAGATGAATCTGGAGGAGCAGAGCCAGCAGCAGGAAAACCTTATGCTT
 TCCATCTGCCCAAGCACGTGGCTGACGAGATGCTGAAGGACATGAAGAAGGACGAGAGCCAGAAGGACC
 AGCAGCAGTTCAATACCATGTACATGTACCGGCACGAGAATGTCAGCATCCTGTTGCAGATATTGTGGG
 CTTTACCAGCTGTCTCTGCTTGCAGTGCCAGGAGCTCGTGAAGTTACTCAACGAGCTTTCGCCCCG
 TTTGACAAGCTGGCAGCCAAATACCACCAGCTGAGGATCAAGATCCTAGGCGACTGTTACTACTGCATCT
 GCGGCTTGCTGACTACCGGGAGGACCATGCCGTGTGCTCCATCCTTATGGGGCTTGCCATGGTAGAGGC
 CATCTCGTACGTGCGGGAGAAGACCAAGACTGGAGTGGACATGCGTGTGGGAGTGCACACAGGCACTGTC
 CTAGGCGGTGCTCTGGCCAGAAGCGCTGGCAGTATGATGTATGGTCTACTGATGTCACCGTGGCAAACA
 AGATGGAGGCTGGTGGCATCCCAGGGCGCGTGCACATTTCCAGAGCACCATGGACTGCCTGAAGGGGGA
 GTTTGATGTGGAGCCTGGTGTGGGGCAGTGCCTGCGACTACCTAGATGAGAAGGGCATCGAAACCTAC
 CTCATCATTGCCTCCAAGCCAGAGGTGAAGAAAACAGCCAAAATGGCCTCAACGGCTCGGCCGTGCCAA



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ACGGAGCGCCGGCATCCTCCAAACCCAGCTCCCCTGCCCTCATCGAGACCAAGGAGCCCAATGGAAGTGC
 CCATGCCAGCGGCTCCACATCAGAGGAGGCTGAAGAACAGGAGGCCAGGCTGACAAACCCTCGTCCCC
 AACCCCGCCGCGAGGCTGCGCCTCCAGGACCTGGCGGACCGTGTGGTGGACGCCTCTGAGGATGAGCAG
 AACTGAACCAGCTGCTTAATGAGGCCCTGCTGGAGCGGGAGTCCGCCAGGTGGTAAAGAAGAGAAAAC
 ATTCTCTGACCATGAGGTTTATGGACCCAGAGATGGAACACGCTACTCGGTGGAGAAGGAGAAGCAG
 AGCGGGGCTGCCTTCAGCTGCTCCTGTGTGGTCTTCTGCACGGCCATGGTGGAGATACTCATTGACC
 CCTGGCTGATGACAAACTATGTGACCTTGTGGTTGGGAGGTTCTGCTCCTGATCACCATCTGCTC
 GATGGCTGCCATCTTCCAGGTCATTTCCCAAGAAGCTTGTGGCCTTCTCATCTTGATTGACCGGACC
 CGCTGGGCAAGGAACACCTGGGCCATGTTAGCCATCTTATTCTGGTTATGGCCAATGTTGTGGACATGC
 TCAGCTGTCTCCAGTACTACATGGGACCTTACAACATGACAGCTGGGATGGAGCTGGACGGCGGCTGCAT
 GGAGAACCCCAAGTACTACAACACGTAGCTGTGCTGTGCTCATCGCCACCATCATGCTGGTGCAGGTC
 AGCCACATGGTGAAGCTGACGCTCATGCTGCTGCTCACAGGCGCCGTGACTGCCCTCAACCTGTACGCT
 GGTGTCTGTCTTTGATGAATACGACCACAAGCGCTTTCAGGAAAAGGACTCTCCTATGGTGGCCTTAGA
 GAAGATGCAGGTAATGCCACCCTGGGCTCAATGGCACTGACAGGCTGCCCTGGTGCCTTCAAGTAC
 TCCATGACTGTGATGATGTTTCGTCATGATGCTGAGCTTTTACTACTTCTCGCGCCACGTGGAAAACTGG
 CCCGAACACTGTTCTTGTGGAAGATTGAGGTCCATGACCAGAAAGAACGTGTCTACGAGATGCGCCGATG
 GAACGAGGCTTGGTACCAACATGTTGCCTGAGCATGTTGCACGCCATTTTCTGGGGTCCAAGAAGAGA
 GATGAGGAGCTGTACAGCCAGTCTTATGACGAGATTGGAGTCATGTTGCCTCCTTGCCCAACTTTGCTG
 ACTTCTACACTGAGGAGAGCATCAACAACGGCGGCATCGAGTGTCTACGTTCTCTCAATGAGATCATCTC
 TGATTTTGACTCTCTCTGGACAATCCCAAATCCGGGTTCATACCAAGATCAAACTATTGGCAGCACC
 TATATGGCAGCTTCAAGGAGTACACCAGATGTCAACCAATGGCTTTACAAGCTCCAGCAAGGAGGAGA
 AGTCAGACAAGGAGCGCTGGCAGCACCTGGCTGACCTGGCTGACTTTGCATTAGCCATGAAGGACACGCT
 CACAAACATCAACAACCAGTCAATCAACAACCTCATGTTGCGCATAGGCATGAACAAAGGAGGGTCTG
 GCTGGCGTCATTGGAGCCCGAAACCACACTATGACATCTGGGGCAATACGGTCAATGTGGCCAGCAGGA
 TGAATCCACAGGAGTCATGGGCAACATCCAGGTGGTAGAAGAGACGAGGTCATCCTTCGAGAGTACGG
 CTTCCGCTTTGTGAGGCGAGGTCCCATCTTGTGAAAGGCAAAGGGGAGCTTCTGACCTTTTCTTGAAG
 GGGCGGGACAGGCCAGCTGCCTTCCCAATGGCTCCTCTGTTACTGCCCCACCAAGTGGTGGACAACC
 CCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001159537
- Insert Size:** 3435 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).
- 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_001159537.1](#), [NP_001153009.1](#)

RefSeq Size: 4727 bp

RefSeq ORF: 3435 bp

Locus ID: 104111

Cytogenetics: 12 A1.1

Gene Summary: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling (PubMed:9768837, PubMed:11055432, PubMed:25329148). Participates in signaling cascades triggered by odorant receptors via its function in cAMP biosynthesis (PubMed:9768837, PubMed:11055432). Required for the perception of odorants (PubMed:11055432). Required for normal sperm motility and normal male fertility (PubMed:15705663). Plays a role in regulating insulin levels and body fat accumulation in response to a high fat diet (PubMed:25329148).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This difference results in a shorter protein (isoform 2) compared to isoform 1. Variants 2 and 3 encode the same isoform.