

Product datasheet for **MC223633**

Adcy1 (NM_009622) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcy1 (NM_009622) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adcy1
Synonyms:	AC1; brl; D11Bwg1392e; I-AC; mKIAA4070
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223633 representing NM_009622 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGGGGCGCCGCGCGGCCAAGGCGGCGGGAGGCGGGCGAGCCGGGGGCGCAGAGCGGGCGG
CCGGGCGGGGCGCCGGCGTGGTTCCGGCGTGTGGCGAGGAGTTCGCGTGCCCGAGCTGGAGGCGCT
GTTCCGCGCTACACGTTGCGGCTGGAGCAGGCGGCCACGCTGAAAGCGCTGGCTGTGCTCAGCCTACTG
GCGGGCGCCCTGGCGTGGCTGAGCTGTGGGCGCACCGGGCCAGCGCCGGGCCTGCCAAGGGGTGCG
ACCCAGTGCAGCTGCATCCTTTCTGGCGCTGTTGCTGGTACCAGTGTCCGATCCCTGCAGGTGTCCCA
GCTGCAGCAGGTCCGTACAGTGGCGCTGTTCTTCAGCCTCACCTTCGCGCTACTCTGCTGCCCTTCGCG
CTGGGCGGCCCGCGAGGAGCTCTGAGGAGGCCAATGGGCTCGACGGTCCGCCAGCAGGGGTTTGGC
AACTCCTTTTGGTACCTTCGTGCTCTATGCCTTGTGCCCCGTGCGCAGCCTACTGGCCATCGGCTTCGG
GCTGGTGGTGGCTGCCTCGCACTTACTGGTACAGCCGCTTGGTCCCTGCCAAGCGCCACGCTCTG
AGGACGCTCCGAGGAAGGCCTTCTGCAGGCTCGAACTGCATTGAGGACCGGCTGCCGCTGGAGGA
TGAGAATGAGAAGCAGGAACGGTTGCTCATGAGCCTCTGCCCCGGAATGTCGCCATGGAGATGAAGGAA
GACTTCTGAAGCCCTGAGAGGATTTTACAAGATTACATCCAGAGGCATGACAATGTGAGCATCC
TGTTTGCAGACATCGTGGTTTACAGGCTGGCGTCCAGTGCACAGCCAGGAGCTGGTGAAGTCTGCT
CAATGAACCTTTGGCAAGTTCGATGAGTTAGCCACGAAAACCACTGTCCGCAATCAAGATCCTTGGT
GACTGCTACTACTGTGTGCTGGCCTACCCAGCCTAAGACGGATCACGCCCACTGCTGTGTTGGAGATGG
GACTTGACATGATCGATACCATCACATCCGTGGCTGAGGCTACTGAAGTAGACCTGAACATGCGTGTGGG
CCTACACACCGGCAGGGTCTCTGTGGTGTCTGGGCTACGAAAGTGGCAGTATGATGATGGTCCAAT
GACGTGACCCTGGCCAATGTCATGGAGGCTGCTGGCTTACCAGGAAGGTCCACATCACAAGACGACCC
TCGCGTCTTGAACGGGGACTACGAGGTGGAGCCAGGTCATGGCCATGAGAGGAACACCTTTCTGAGAAC
TCACAACATTGAGACCTCTTTATTGTGCCATCCATCGGAGGAAGATATCCAGGCTTGATTCTCTCG



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GATATCAAACCAGCCAAGAGGATGAAGTTCAAGACTGTGTGCTATCTGCTGGTGCAGCTCATGCACTGCC
 GGAAAATGTTCAAGGCTGAGATCCCCTTCTCCAACGTGATGACCTGCGAGGATGACGACAAGCGGAGGGC
 ATTGAGAACAGCCTCGGAGAAGCTCAGAAACCGTTTCGTCTTTCTACTAATGTGGTCTACACCACTCCG
 GGTACACGCGTCAACAGGTACATCAGCCGCCTTCTCGAAGCCCGCCAGACAGAGCTGGAGATGGCCGATC
 TGAACTTCTTTACTCTGAAGTACAAACATGTGCAACGAGAACAAAAATACCACCAGCTTCAGGACGAGTA
 CTTACCAGCGCCGTTGTCCTCGCCCTCATCTGGCTGCCTTATTTGGGCTTATCTACCTTCTGGTAATC
 CCACAGAGTGTGGCTGCTCTGCTGCTGGTATTTTCCATCTGCTTCTTGGTGGCCTGTACCTGTACC
 TGCACATCACGGGGTCCAGTGTTTTCCAGGGTGCCTGACGATCCAGATCCGCACCGCCTTGTGTGT
 CATAGTGGTCTTAATCTACTCGGTAGCTCAAGGCTGTGTGGTGGGCTGCCTGCCCTGGGCTGGAGCTCT
 CAGTCTAACAGTTCCTAGTGGTCTCGCAGCTGGTGGCCGGCGCACTGTGCTGCCTGCCCTGCCCTGTG
 AGTCTGCACACCATGCCCTGCTCTGCTGCCTGGTGGGCACCTCCCACTAGCCATATTCTGCGGGTGC
 CTCCTTGCCAAAGATGATCCTGCTGTCTGGGCTGACTACTTCTACATCCTTGTCTGGAGCTCAGTGG
 TACACCAAGGTTGGGGCGGTGCCCTCTCTGGGCGCAGCTATGAGCCAATCATGGCTATCCTGCTGTTCT
 CATGCACGCTGGCCCTGCACGCCAGGCAAGTGGATGTCAGACTACGGCTGGACTACCTCTGGGCAGCACA
 GCGCGAGGAGGAACGGGATGACATGGAGAGAGTCAAGCTGGACAACAAGAGGATCCTCTCAATCTCCTG
 CCAGCTCACGTCGCACAGCACTTCCATGTCCAATCCCCGGAACATGGACCTCTACTACCAGTCCCTACT
 CCCAGGTGGGCGTCAATGTTTGCCTCCATCCCCAACTTCAATGACTTCTACATAGAACTGGATGGCAACA
 CATGGGTGTTGAGTGTCTGCGGCTCCTCAACGAGATCATTGCCGACTTTGATGAGCTCATGGACAAGGAC
 TTCTATAAGGACTGGAGAAGATTAAGACCATTGGGAGCACTTACATGGCTGCCGTGGGGCTGGCGCCCA
 CAGCAGGAACAGGGCTAAGAAGTCCATCTCCTCCCACCTATGCACACTGGCAGACTTCGCCATCGCAT
 GTTTGATGTTCTGGATGAAATCAACTACCAGTCTACAACGACTTTGTTCTCCGAGTTGGCATCAACGTT
 GGCCCCGTGGTTGCTGGAGTATCGGTGCTCGCAGGCCCAAGTACGACATCTGGGAAACACAGTCAATG
 TGGCCAGTCCGATGGATAGCACTGGGGTCCAGGGACGAATTCAGGTGACTGAGGAAGTCCACCGGCTGCT
 GAAGAGGTGCTCATACCAGTTTGTGTGTCAGAGGCAAAGTCAAGCTGAAGGGCAAGGGAGAGATGCTAACG
 TACTTTCTAGAAGGCAGGACTGATGAAACAGTTCACCGGCAGGACCTTTTCGTTGGAACGAAGGATGT
 GTCCTTATGGGAGAGGCGGAGGCCAGGCCAGACGGCCCCCACTGTGTCCCGGGCTGGACCCCCAGTCAG
 ACCAGGGCTCCCTCCAGCCCCACTAGCCAGTACCTGTCATCCACAGCAGCAGGGAAGGAAGCTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-RsrII

ACCN:

NM_009622

Insert Size:

3357 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_009622.1](#), [NP_033752.1](#)

RefSeq Size: 12259 bp

RefSeq ORF: 3357 bp

Locus ID: 432530

UniProt ID: [O88444](#)

Cytogenetics: 11 4.72 cM

Gene Summary: Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca(2+)/calmodulin levels (PubMed:9662407, PubMed:7816821). May be involved in regulatory processes in the central nervous system (PubMed:9662407). May play a role in memory and learning (PubMed:7816821). Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (PubMed:24048828). [UniProtKB/Swiss-Prot Function]