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Product datasheet for MC229369

Adcy7 (NM_001037724) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcy7 (NM_001037724) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adcy7
Synonyms:	AA407758
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229369 representing NM_001037724 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCAGCCAAGGGGCGCTACTTCCTAAATGAGGGTGATGAAGGCCCCGACCAGGCAGCGCTCTATGAGA AGTACCGGCTCACCAGCTTGCACGGGCCACTGCTGCTCTTGCTCCTCCTGGTGGCCGCGGCCACCTGCAT TGCGCTCATCAGCATCGCCTTCAGTCATGAGGATCTCCGCAGACACCAGGTTGTCCTGGGCACTGCGTTC CTCATGCTGACGCTGTTTGTGGCTCTCTATGTGCTGGTGTATGTCGAGTGCCTGGTGCAGCGGTGGCTGC GGGCCTTGGCGCTACTCACCTGGGCTTGCCTCATGGTACTAGGCTCCGTGCTGATGTGGGACTCTTTGGA GAATGAAGCCCATGCGTGGGAGCAGGTGCCTTTCTTCCTGTTTGTCGTCTTTGTGGTGTATGCACTACTG CCTCTCAGCAGGAGGGCAGCCATCGTGGCAGGCGTGACCTCCACGGTCTCCCATCTCCTGGTGTTTGGAG CTGTGACAAGAGCCTTCCAGACGTCCATGTCTAGCACTCAACTGGGGCTGCAGCTCCTGGCCAATGCCGT TATCCTCCTGGGTGGGAACTTCACGGGTGCCTTCCACAAGCACCAGCTGCAGGACGCGTCCAGGGATCTC TTTATCTACACCGTCAAATGCATCCAGATCCGTCGGAAGCTTCGTGTGGAGAAGCGCCAGCAGGAGAACC TGCTTCTGTCAGTGCTCCCAGCACACATCTCCATGGGTATGAAGCTGGCCATCATTGAGCGCCTCAAAGA GGGTGGTGACCGACACTACATGCCCGACAACAACTTTCACAGCCTCTATGTCAAGCGGCACCAGAATGTC AGCATCTTGTATGCAGACATCGTGGGCTTCACGAGGCTGGCCAGCGACTGCTCTCCCAAGGAGCTGGTGG TGGTGCTCAACGAGCTGTTTGGGAAGTTTGACCAGATTGCTAAGGCCAATGAGTGCATGCGGATCAAGAT CCTGGGTGACTGTTACTACTGCGTGTCAGGCCTGCCCGTGTCGCTGCCCACACATGCCCGCAACTGTGTG AAGATGGGTCTGGACATCTGCGAGGCCATTAAGCAGGTGCGTGAGGCCACGGGCGTGGACATCAGCATGC GTGTGGGCATTCACTCCGGGAATGTGCTATGTGGGGTCATCGGGCTCCGTAAGTGGCAGTATGATGTGTG GTCCCATGATGTGTCCCTGGCCAACAGGATGGAGGCAGCTGGAGTCCCTGGCCGGGTGCACATCACAGAG GCAACATTGAATCACCTGGACAAGGCATATGAGGTGGAGGATGGGCATGGGGAGCAGCGAGACCCCTATC TGAAAGAGATGAACATCCGAACCTACCTGGTGATCGATCCCCGGAGCCAGCAGCCACCCCCACCCAGCCA CCACCTCTCCAAGCCCAAGGGGGACGCAACTCTGAAGATGCGGGCTTCAGTGCGTGTAACCCGCTATCTG GAGTCTTGGGGGGCAGCAAGGCCCTTTGCACACCTCAACCACCGGGAGAGTGTGAGCAGCAGTGAGACCC

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CCATCTCCAATGGACGGAGGCAGAAGGCCATTCCTCTGCGTCGACACCGTGCCCCTGATAGGAGTGCATC
TCCCAAGGGGCGCTTGGAAGATGACTGTGATGACGAGATGCTGTCAGCCATTGAGGGTCTCAGCTCCACC
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CCTTCCGCCTCCGAGTCGGCATAAACCACGGGCCTGTGATTGCTGGAGTGATTGGAGCACGCAAGCCTCA
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CAGGTTACCGAAGAGACATGCACTATCCTCCAGGGACTCGGATATTCGTGTGAATGCCGTGGGCTGATCA
ACGTCAAAGGCAAAGGGGAACTGCGGACTTACTTTGTATGTACAGACACTGCCAAGTTTCAAGGGCTGGG
GCTAAACTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_001037724
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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001037724.4, NP_001032813.1
RefSeq Size:	5969 bp
RefSeq ORF:	3300 bp
Locus ID:	11513
UniProt ID:	P51829
Cytogenetics:	8 43.06 cM
Gene Summary:	Catalyzes the formation of cAMP in response to activation of G protein-coupled receptors (Probable). Functions in signaling cascades activated namely by thrombin and sphingosine 1-phosphate and mediates regulation of cAMP synthesis through synergistic action of the stimulatory G alpha protein with GNA13 (PubMed:18541530). Also, during inflammation, mediates zymosan-induced increase intracellular cAMP, leading to protein kinase A pathway activation in order to modulate innate immune responses through heterotrimeric G proteins G(12/13) (PubMed:23178822). Functions in signaling cascades activated namely by dopamine and C5 alpha chain and mediates regulation of cAMP synthesis through synergistic action of the stimulatory G protein with G beta:gamma complex (By similarity). Functions, through cAMP response regulation, to keep inflammation under control during bacterial infection by sensing the presence of serum factors, such as the bioactive lysophospholipid (LPA) that regulate LPS-induced TNF-alpha production. However, it is also required for the optimal functions of B and T cells during adaptive immune responses by regulating cAMP synthesis in both B and T cells (PubMed:20505140).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein.