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Product datasheet for MC224761

Adcy10 (NM_173029) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcy10 (NM_173029) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adcy10
Synonyms:	4930431D04Rik; 4931412F17; sAC; Sacy
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224761 representing NM_173029 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGCGCGAAGGCAGGAATTACAAGACAGGGCAATCGTCAAGATAGCTGCTCACTTACCAGACCTCA TCGTCTACGGAGATTTCTCTCCGGAACGGCCGTCAGTAAAATGTTTTGATGGAGTTCTGATGTTTGTTGA TATTTCAGGTTTTACTGCAATGACTGAGAAGTTCAGCACGGCCATGTACATGGACCGAGGAGCCGAACAG CTCGTGGAGATCCTCAACTACTACATAAGTGCCATAGTGGAGAAAGTGCTGATTTTTGGAGGAGACATCC TAAAATTTGCAGGTGATGCCTTGCTGGCCCTGTGGAAAGTGGAACGAAAGCAACTGAAGAACATCATCAC GGTGGTGATTAAGTGCAGCCTGGAGATCCATGGCTTGTTTGAAGCCAAGGAGGCTGAAGAAGGCCTGGAC ATTCGAGTTAAGATAGGGCTGGCTGCTGGCCACATCACCATGTTGGTCTTTGGGGATGAAACACGGAACT ACTTCCTGGTGATTGGCCAGGCGGTGGATGATGTCCGCCTTGCTCAGAACATGGCTCAGATGAACGACGT TATTTTGTCACCAAACTGCTGGCAGCTCTGTGATCGGAGCATGATTGAAATTGAGAGGATTCCAGATCAG AGAGCAGTTAAGGTTAGCTTCTTAAAACCACCCCCAACCTTTAATTTTGACGAGTTTTTCACAAAATGTA TGGGCTTCATGGATTATTATCCTTCTGGTGACCACAAAAACTTCCTAAGGCTTGCCTGCATGCTGGAGTC TGATCCTGAACTCGAGCTGTCTCTACAAAAGTACGTGATGGAAATCATTTTGAAGCAGATCGATGACAAG CAGCTGCGGGGCTATTTATCTGAGCTTCGCCCTGTGACAATTGTGTTTGTGAACTTGATGTTTAAAGAGC AAGACAAAGTAGAAGTCATAGGCTCAGCCATCCAAGCTGCCTGTGTACACATCACTTCTGTCTTGAAGGT CTTCCGAGGCCAGATCAATAAGGTCTTCATGTTTGATAAGGGCTGCTCCTTCCTCTGTGTCTTCGGCTTC CCTGGGGAAAAGGCTCCCGATGAGATCACTCATGCGCTGGAAAGTGCCGTGGATATATTTGACTTCTGCT CCCAGGTCCACAAAATCCGTACTGTCTCCATCGGTGTTGCCAGTGGGATTGTCTTCTGTGGGATCGTTGG ACACACTGTGAGACATGAGTACACAGTCATCGGTCAGAAGGTCAACATTGCTGCCAGGATGATGATGTAC TACCCGGGCATCGTGAGCTGCGACTCTGTCACCTACGATGGCAGCAACCTACCAGCCTACTTTTTTAAGG AGCTTCCGAAGAAAGTTATGAAAGGAGTTGCAGATCCTGGACCCGTGTATCAGTGTTTGGGCCTCAATGA GAAAGTCATGTTTGGTATGGCATATCTCATCTGCAACAGATATGAGGGCTACCCTTTGCTGGGACGTGTT AGGGAGATCGACTATTTCATGTCTACTATGAAGGACTTTTTGATGACGAACTGCAGCCGAGTTCTAATGT

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CCTCAGTGTGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_173029
Insert Size:	4845 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_173029.3, NP_766617.2
RefSeq Size:	5209 bp
RefSeq ORF:	4845 bp
Locus ID:	271639
UniProt ID:	Q8C0T9
Cytogenetics:	1 H2.3
Gene Summary:	Catalyzes the formation of the signaling molecule cAMP. May function as sensor that mediates responses to changes in cellular bicarbonate and CO(2) levels (By similarity). Has a critical role in mammalian spermatogenesis by producing the cAMP which regulates cAMP-responsive nuclear factors indispensable for sperm maturation in the epididymis. Induces capacitation, the maturational process that sperm undergo prior to fertilization (PubMed:14976244, PubMed:16054031). Involved in ciliary beat regulation (By similarity). [UniProtKB/Swiss-Prot Function]