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Product datasheet for MC229381

Adcy9 (NM_001291910) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adcy9 (NM_001291910) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adcy9
Synonyms:	AC9; ACtp10; AW125421; D16Wsu65e; mKIAA0520
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229381 representing NM_001291910 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGTTACCTCTGTACCTGAGCTTGTTTTTGGGGGTGGTCTATTCTGTCCTTTTTGAGACCTTCGGCT ACCACTTCCGAAACGAAGACTGCTACCCTTCTCCGGGCCCTGGGGCCCTGCACTGGGAGCTGCTGAGCAG AGCCCTGCTTCACGTGTGCATTCACGCTATCGGGATCCATCTGTTTGTCATGTCTCAGGTGAGGTCCAGG AGCACCTTTCTCAAGGTGGGACAATCCATTATGCACGGCAAAGATCTGGAAGTAGAGAAAGCCCTGAAAG AGAGGATGATTCATTCAGTGATGCCAAGAATCATAGCCGACGACTTAATGAAACAAGGGGACGAGGAGAG TGAGAATTCCGTCAAGAGGCATGCCACCTCCAGTCCCAAGAACAGGAAGAAGAAGTCCTCCATACAGAAG GCACCGATAGCATTCCGCCCCTTTAAGATGCAGCAGATTGAAGAAGTCAGTATTTTATTTGCAGACATTG TGGGTTTCACCAAGATGAGCGCCAACAAATCTGCGCATGCCTTGGTAGGCCTACTCAATGACCTGTTCGG TCGCTTTGACCGCCTGTGTGAGCAGACCAAGTGTGAGAAGATCAGCACTCTGGGGGACTGTTATTACTGT GTGGCAGGGTGTCCGGAGCCCCGGGCAGACCATGCCTACTGCTGCATTGAAATGGGCTTAGGCATGATAA AAGCCATCGAGCAGTTCTGCCAGGAGAAGAAAGAGATGGTGAACATGCGTGTTGGGGTTCACACGGGGAC TGTCCTGTGTGGCATCCTGGGCATGAGGAGGTTTAAATTTGATGTGTGGTCCAACGATGTGAACTTGGCT AATCTCATGGAGCAGCTGGGAGTGGCTGGCAAAGTTCACATATCTGAGGCCACTGCAAAATACTTAGACG ACAGGTATGAAATGGAAGATGGGAGAGTTATTGAGCGCCTTGGGCAGAGTGTGGTGGCTGACCAGTTGAA AGGTTTGAAGACATACCTGATATCGGGTCAGAGAGCCAAGGAGTCCCACTGCAGCTGTGCAGAGGCCCTG CTTTCTGGCTTTGAGGTCATTGACGACTCACGGGAGTCCTCAGGCCCTAGGGGACAGGGGACAGCATCGC CAGGGAGTGTCAGTGATTTGGCGCAGACTGTCAAAACCTTTGATAACCTTAAGACTTGCCCTTCTTGTGG AATCACATTTGCTCCCAAATCTGAAGCTGGTGCAGAAGGAGGAACTGTGCAAAATGGCTGTCAAGACGAG CCTAAGACCAGCACCAAGGCTTCTGGAGGACCCAACTCCAAAACCCAGAATGGACTTCTGAGCCCTCCTG CAGAGGAGAAGCTCACTAACAGCCAGACCTCCCTCTGTGAGATCCTGCAAGAGAAGGGACGGTGGGCAGG GGTGAGCTTGGACCAGTCAGCCCTCCTCCCGCTCAGGTTCAAGAACATCCGTGAGAAAACTGATGCCCAC TTTGTTGATGTCATCAAAGAAGACAGCCTGATGAAAGATTATTTCTTCAAGCCGCCCATCAATCAGTTCA

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GCCTGAACTTCCTGGACCAGGAGCTGGAGCGATCATATAGAACCAGCTACCAGGAAGAGGTCATAAAGAA
TTCTCCTGTGAAGACGTTCGCCAGTGCCACCTTCAGCTCCCTTCTGGATGTGTTTCTGTCAACCACCGTG
TTCTTGATTCTCTCCATCACCTGCTTCCTAAAGTATGGAGCCACCGCCACCCCTCCCCCACCGGCTGCCC
TGGCCGTCTTTGGTGCAGACCTGCTGCTGGAGGTGCTTTCCCTCATAGTGTCCATCAGAATGGTGTTTTT
CCTAGAGGATGTCATGACATGCACAAAGTGGTTGCTGGAATGGATCGCTGGCTGGCTCCCTCGCCACTGC
ATTGGGGCAATCTTGGTGTCTCTTCCTGCCCTGGCTGTCTATTCACACATCACCTCTGAGTTTGAGACCA
ACATACATGTTACCATGTTCACTGGCTCTGCGGTGCTGGTGGCCGTTGTGCACTACTGTAACTTCTGCCA
GCTCAGCTCCTGGATGAGGTCCTCCCTTGCCACCATCGTGGGGGCTGGGCTGCTGCTTCTGCTCCACATC
TCCCTGTGTCAGGACAGTTCCATTGTGATGTCCCCCTTGGACTCAGCACAGAATTTCAGTGCCCAGAGGA
ACCCATGCAACAGCTCAGTGCTGCAGGACGGCAGGAGGCCGGCCAGCCTCATAGGCAAGGAGCTTATCCT
CACCTTCTTCCTCCTGCTCCTCTTGGTCTGGTTCCTGAACCGGGAGTTCGAGGTCAGCTACCGGCTGCAC
TACCATGGGGATGTGGAGGCCGACCTACACCGCACCAAGATCCAGAGCATGAGAGACCAGGCTGACTGGC
TACTGCGGAACATCATCCCCTACCATGTGGCTGAGCAGCTCAAGGTCTCTCAGACCTACTCCAAGAACCA
TGACAGCGGGGGAGTCATCTTTGCCAGCATTGTCAACTTCAGTGAATTCTATGAGGAGAACTATGAGGGG
GGCAAGGAGTGCTACCGTGTCCTCAACGAGCTGATCGGTGACTTCGATGAGCTCTTGAGCAAGCCGGACT
ATAATAGCATCGAGAAGATCAAGACCATCGGGGCCACATACATGGCAGCCTCAGGGCTGAACACGGCCCA
GTGTCAGGAGGGTGGCCACCCACAGGAGCATCTGCGTATCCTCTTCGAGTTCGCCAAGGAGATGATGCGC
GTGGTGGATGACTTCAACAACAATATGTTATGGTTCAACTTCAAGCTCAGGGTCGGCTTTAACCACGGAC
CCCTCACAGCAGGTGTCATAGGTACCACCAAGCTGCTGTATGACATCTGGGGGGACACCGTCAACATCGC
CAGCAGGATGGACACCACTGGTGTGGAGTGCCGTATCCAGGTGAGCGAAGAGAGCTACCGTGTGCTGAGC
AAGATGGGTTATGACTTTGACTACCGAGGGACCGTGAATGTCAAGGGGAAAGGGCAGATGAAGACCTACC
TTTACCCAAAGTGCACGGACAATGGAGTGGTTCCCCAGCACCAGCTGTCCATCTCCCCAGACATCCGAGT
CCAGGTGGACGGCAGCATTGGGCGGTCTCCCACAGATGAGATTGCCAACTTGGTGCCTTCCGTTCAGTAT
TCGGACAAGGCTTCCCTGGGATCTGATGATAGCACACAGGCTAAGGAAGCTCGCCTGTCCTCTAAGAGGT
CCTGGAGAGAGCCAGTCAAAGCAGAGGAAAGGTTTCCATTTGGCAAAGCCATAGAAAAGGACAGCTGTGA
AGACATAGGAGTAGAAGAGGCCAGTGAACTCAGCAAGCTCAATGTCTCAAAGAGTGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291910

Insert Size: 3351 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_001291910.1, NP_001278839.1
RefSeq Size:	7632 bp
RefSeq ORF:	3351 bp
Locus ID:	11515
Cytogenetics:	16 2.42 cM
Gene Summary:	Adenylyl cyclase that catalyzes the formation of the signaling molecule cAMP in response to activation of G protein-coupled receptors. Contributes to signaling cascades activated by CRH (corticotropin-releasing factor), corticosteroids and by beta-adrenergic receptors. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 2), has a shorter N-terminus than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.