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Product datasheet for SC119443

ADCY8 (NM_001115) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCY8 (NM_001115) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCY8
Synonyms:	AC8; ADCY3; HBAC1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119443 sequence for NM_001115 edited (data generated by NextGen Sequencing)

```
ATGGAGCTCTCCGATGTGCGCTGCCTTACAGGCAGCGAGGAACTCTACACCATCCACCCG
ACGCCCCCGGCCGGCGACGGCAGGAGCGCCTCCCGGCCGCAGCGGCTGCTGTGGCAGACG
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GGGAGTGGAGGCTCGGGCAAAGCCTCGGACCCTGCGGGCGGCGGCCCCAACCACCACACG
CCGCAGCTGTCAGGCGACTCGGCGCTGCCCCTCTACTCGCTGGGCCCGGGAGAGCGAGCG
CACAGCACCTGCGGCACCAAAGTCTTCCCGGAACGCAGCGGGAGCGGCAGTGCCAGCGGC
AGCGGAGGCGGGGGCGACCTGGGCTTCCTGCACCTTGACTGTGCCCCTAGCAACTCGGAT
TTCTTTCTTAATGGGGGCTATAGCTACCGAGGGGTCATTTTCCCCACCCTGCGCAACTCC
TTCAAATCTCGGGATTTGGAACGCCTCTACCAGCGCTATTTCTTGGGCCAAAGGCGCAAA
TCGGAAGTGGTGATGAACGTGCTGGACGTGCTGACCAAACTCACTCTCTTGGTCCTACAC
TTGAGCCTGGCCTCGGCCCCCATGGACCCGCTCAAGGGCATCCTGCTGGGCTTCTTCACC
GGCATTGAGGTAGTGATCTGCGCCCTGGTGGTGGTCAGGAAGGACACCACCTCCCACACG
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GGCCTCGGCTACGGGCTCCTGGGCGACGGCATAGGCTACGTGCTCTTCACGCTCTTCGCC
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CTGGGGGACTGCTACTACTGCGTGTCTGGACTTCCTGAGCCCCGCCAGGACCATGCCCAC
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AAACACGATGTTGACATGAGGATTGGAATCCACTCCGGCTCGGTGCTGTGCGGTGTTTTG
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CAGTCCCTCAATAGGCAAAGGCAGAAGCAGCTACTCAATGAGAACAACAACACAGGAATC
ATCAAGGGTCATTACAACCGGCGGACTTTGTTGTCACCCAGCGGCACAGAGCCTGGAGCC
CAGGCTGAAGGCACCGACAAATCTGATTTGCCATAA

Clone variation with respect to NM_001115.2
238 g=>a;1032 g=>t;2633 c=>t

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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_001115 unedited
AACGTCAGCCGCCCGTTCNCGCTAATGGGCGTAGGCGTGTACGGTGGGAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCG
CGAATTCGGCACGAGGCCCAAGCTGCGCCGGCTGGCGGGAGAGCAGCACGCAAGGACGCC
GAGGTCCGCCGCGATCTTCCAGGTGCCCTTTGCCCCTGGGCACAGTATGACCCGACCTAC
AGGGAGCCCTAGCGCAGGGCTCCTGCAACGGGGCAGCCTAGGATAAAAAGGATCCTTGCC
AAGCTCCTACCAGGCCGCCTTTGAGTCTTTAGGAACCCCTCCTCCGGCTGCCTCCCCAAG
GTTCTGGGCCTCCTTCCCTGCGGCCCAGAGCCATGGAGCTCTCCGATGTGCGCTGCCTTA
CAGGCAGCGAGGAACTCTACACCATCCACCCGACGCCCCCGGCCGGCGACGGCAGGAGCG
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TCATTCACGGGCACCGGGGAGGCAGCGGCAGCGGGAGTGGAGGCTCGGGCAAAGCCTCGG
ACCCTGCGGGCGGCGGCCCCAACCACCACACGCCGCAGCTGTCAGGCGACTCGGCGCTGC
CCCTCTACTCGCTGGGCCCGGGAGAGCGAGCGCACAGCACCTGCGGCACCAAAGTCTTCC
CGGAACGCAGCGGGAGCGGCAGTGCCAGCGGCAGCGGAAGCGGGGGCGACCTGNGCTTCC
TGCACCTTGACTGTGCCCCTAGCAACTCGGATTTCTTTCTTAATGGGGGCTATAGCTACC
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GCGCTATT
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3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_001115 unedited
AGNGTGGCACTGGGGNGGGGTCACAGGGCTGCCACCCGGGCTCTGTTCAGGAAACAGCTA
TGACCGCGGCCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTCTAAAAAAAATTAAA
CCTTTTTATTAGTATATTTATTTTATATATAAAAGAAATACAAAAAAAAAAAAAAACAGAA
AGAAAATGCTTTTATGGCAAATCAGATTTGTCGGTGCCTTCAGCCTGGGCTCCAGGCTCT
GTGCCGCTGGGTGACAACAAAGTCCGCCGGTTGTAATGACCCTTGATGATTCCTGTGTTG
TTGTTCTCATTGAGTAGCTGCTTCTGCCTTTGCCTATTGAGGGACTGGACAAGTCCCAGG
ACAACCGCGGCCAGGGAGTACTGCCCAGGCAGTCTTCTTGGGGGCAAGATGAATGGGTTG
GGTTGGACTCTTCCCAGAAGAAAGTACGTTTTGATTTTTCCTTCCTGTTCACTGATACCC
TTCACATAGATCTCCCCTCGGTAATCAAAGGCAAAGCCCTGGTCCTTCAGGATGAGATAG
GTCTCCTCTGGGACTTGGATCCGGCCACTAACCCCCGTGCTGTCCATTCGGCTTGCCAGG
TTCACAGTTTTGCCCCAAATGTCATACTGTGGTTTCTTAGCGCCGATAACGCCAGCTACC
ACTGAGCCGTGGCTGATGCCAATCCGGAGTTCAAAATTGTAGAATGAATGCTTGTTGATC
TCCTGTATGCTTTCTGTCAGGGCGAGTGAGAAGTCAGCCAGAGCACACAAATGTCCCCAC
TTGGTCTCACATTGCTGTTTTTTAAGTGACAGGCCTGACACGGCCATGTAGGTGCTGCAA
GGGTCTTATCCTTTCATGTCNTGAAATGGGTCTTAACCAGCACTCATCGAG
```

Restriction Sites: NotI-NotI

ACCN: NM_001115

Insert Size: 4700 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).

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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_001115.1, NP_001106.1
RefSeq Size:	6005 bp
RefSeq ORF:	3756 bp
Locus ID:	114
UniProt ID:	P40145
Cytogenetics:	8q24.22
Domains:	CYCc
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction, Vascular smooth muscle contraction
Gene Summary:	Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. The enzymatic activity is under the control of several hormones, and different polypeptides participate in the transduction of the signal from the receptor to the catalytic moiety. Stimulatory or inhibitory receptors (Rs and Ri) interact with G proteins (Gs and Gi) that exhibit GTPase activity and they modulate the activity of the catalytic subunit of the adenylyl cyclase [provided by RefSeq, Jul 2008]

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