

## 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
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119443 sequence for NM_001115 edited (data generated by NextGen Sequencing)

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ATGGAGCTCTCCGATGTGCGCTGCCTTACAGGCAGCGAGGAACTTACACCATCCACCCG
ACGCCCGCGCCGGCAGCGCAGGAGCGCCTCCCGCCGCGAGCGGCTGCTGTGGCAGACG
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CAGGCTGAAGGCACCGACAAATCTGATTTGCCATAA

Clone variation with respect to NM\_001115.2

238 g=>a;1032 g=>t;2633 c=>t

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001115 unedited AACGTCAGCCGCCGTTCCNCGCTAATGGGCGTAGGCGGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG CGAATTCGGCACGAGGCCAAGCTGCGCCGGCTGGCGGGAGAGCAGCAGCAAGGACGCC GAGGTCGCCCGCATCTCCAGGTGCCCTTTGCCCTGGGCACAGTATGACCCGACCTAC AGGGAGCCCTAGCGCAGGGCTCTGCAACGGGGCAGCCTAGGATAAAAAGGATCCTTGCC AAGCTCCTACCAGCGCCCTTTGAGTCTTTAGGAACCCCTCCTCGGCTGCCTCCCAAG GTTCTGGCCCTCCTTCCCTGCGGCCAGAGCCATGGAGCTCTCCGATGTGCGCTGCCTTA CAGGCAGCGAGGAAGTCTACACCATCCACCCGACGCCCCCGCCGGCGACGGCAGGAGCG CCTCCCGGCCGACGGCTGCTGTGGCAGACGGCGGTGCGACACATCACGGAGCAGCGCT TCATTCACGGGACCCGGGAGGCAGCGCAGCGGAGTGGAGGCTCGGGCAAAGCCTCGG ACCCTGCGGGCGGCCCAACCACCACCGCCGAGCTGTGAGGCGACTCGGCGCTGC CCCTCTACTCGTGGGCCGGGAGAGCGAGCGCACAGCACCTGCGGCACCAAAGTCTTCC CGGAACGCAGCGGAGCGCAGTCCAGCGGCAGCGGAAGCGGGGCGACCTGNGCTTCC TGCACCTTGACTGTGCCCTAGCAACTCGGATTTCTTTCTTAATGGGGGTATAGCTACC CGAGGGTCATTTCCCCCTGCGCACTCTTCAATCTCGGGATTGGAACGCCTCTACCA GGCTATT
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001115 unedited AGNGTGGCACTGGGGNNGGGTACAGGGCTGCCACCCGGGCTCTGTTTCAGGAAACAGCTA TGACCGCGCCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTCTAAAAAAATTA CCTTTTTATTAGTATATTTATATATAAAAAGAAATACAAAAAAGAAAAACAGAA AGAAAATGCTTTTATGGCAAATCAGATTTGTGGTGCCTTCAGCCTGGGCTCCAGGCTCT GTGCCGCTGGGTGACAACAAAGTCCGCCGTTGTAAATGACCTTGATGATTCCTGTGTTG TTGTTCTCATTGAGTAGCTGCTTCTGCCTTTGCCTATTGAGGGACTGGACAAGTCCCAGG ACAACCGCGCCAGGGAGTACTGCCAGGCAGTCTTCTGGGGCAAGATGAATGGGTTG GGTTGGACTCTTCCAGAAAGAAAGTACGTTTTGATTTTTCTTCTGTTCACTGATACCC TTCACATAGATCTCCCTCGGTAATCAAAGGCAAAGCCCTGGTCTTCAGGATGAGATAG GTCTCCTCTGGGACTTGGATCCGGCCACTAACCCCGTGTGTCCATTGCGCTTGCCAGG TTCACAGTTTTGCCCAAATGTCATACTGTGGTTTCTTAGCGCCGATAACGCCAGCTACC ACTGAGCCGTGGCTGATGCCAATCCGGAGTTCAAATTGTAGAATGAATGCTTGTGATC TCTGTATGCTTTCTGTGAGGGCAGTGAGAAGTCAGCCAGAGCACAAATGTCCAC TTGGTCTCACATTGCTGTTTTTAAAGTGACAGGCCTGACACGGCCATGTAGGTGCTGCAA GGGTCTTATCCTTTCATGTCNTGAAATGGGTCTTAACCAGCACTCATCGAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001115
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001115.1</a> , <a href="#">NP_001106.1</a>
<b>RefSeq Size:</b>	6005 bp
<b>RefSeq ORF:</b>	3756 bp
<b>Locus ID:</b>	114
<b>UniProt ID:</b>	<a href="#">P40145</a> , <a href="#">A0A0K0K1K3</a> , <a href="#">Q4F7X0</a>

<b>Domains:</b>	CYCc
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	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]