

Product datasheet for **SC303537**

CDY2A (NM_004825) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDY2A (NM_004825) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDY2A
Synonyms:	CDY; CDY2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC303537 representing NM_004825.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCTTCCCAGGAGTTTGAGGTTGAAGCTATTGTTGACAAAAGACAGGATAAAAAATGGAATACACAG
TATTTGGTTCGGTGAAAGGTTATGACAAACAGGATGACACTTGGGAACAGAGCAGCACCTCATGAAC
TGTGAAAAATGTGTACATGATTTTAATAGACGACAGACTGAAAAACAGAAAAAAGTACATGGACTACA
ACCACTAGAATTTTTTCAACAATGCCAGAAGAAGAACTTCCAGATCTACAAAAGCAAACTATTCTAAG
AACTCTCTAAAACCTCCAGTGACTGATAAACACCAAGGTCCAAAACTGCAAGTTATTTGCTGCCAGC
AAGAAGCTTAGGAGAAAGGCAGCTTCAACTCTCTCCGACACAAAGAAATATGGAGATAATAAATTTCAACT
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AAACTGGACCCTATTGCAGCAGATCAGCAGGACACGGTGGTCTTCAAGGTGACAGAAGGGAAGCTCTC
CGGACCCCTTTGTACATCCTGGTGCAGAACAGACTGGAATACAGAACAAGACTCAGATGCACCCACTA
ATGTCGCAGATGTCTGGCTCAGTTACTGCTTCTATGGCCACAGGTTCAAGTACCCGAAAGGGTATAGTG
GTATTAATAGACCCATTAGCAGCCAATGGGACAACAGACATGCATACCTCAGTTCCAAGAGTGAAAGGT
GGGCAAGAAATATTACTGATGACAGCAGAGGCCAGCCTTTTATCAAGAAGATGCACTTACCATAAGG
CTAACAGAAAGTGCCATCACATACAGAGACATTGTAGTGAAGAAAGAGGATGGATTACCCAGATAGTG
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GCCATTGGACTAGGTGCATCCATCCTGCCTCTTTGTGATCTCGTGTGGGTAATGAAAAGGCTTGGTTC
CAAACCCCTTATACGACCTTTGGACAGAGTCCAGATGGCTGTTCTTCTATTACATTCCTCCCAAAATGATG
GGTAAAGCATCTGCCAATGAAATGTTAATTGCTGGGCGAAAGCTGACAGCACGGGAGGCATGCGCCAAA
GGCCTGCTCTCAGGTATTTTGTGACTGGAACCTTTCACCAAGAGGTTATGATTCAAATTAAGGAGCTT
GCCTCATACAATGCAATTGTACTGGAAGATGTAAGGCCCTCGTTCGCTGTAATATTAAGTTGGAGTTG
GAACAGGCCAATGAGAGAGAGTGTGAGGTGCTGAGGAAGATCTGGAGCTCAGCCCAAGGGATAGAATCC
ATGTTAAAGTATGTTGAAAATAAAATTGATGAGTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_004825

Insert Size: 1626 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_004825.2](#)

RefSeq Size: 1960 bp

RefSeq ORF: 1626 bp

Locus ID: 9426

UniProt ID: [Q9Y6F7](#)

Cytogenetics: Yq11.222

MW: 60.5 kDa

Gene Summary: This intronless gene encodes a protein containing a chromodomain and a histone acetyltransferase catalytic domain. Chromodomain proteins are components of heterochromatin-like complexes and can act as gene repressors. This protein is localized to the nucleus of late spermatids where histone hyperacetylation takes place. Histone hyperacetylation is thought to facilitate the transition in which protamines replace histones as the major DNA-packaging protein. Two nearly identical copies of this gene are found in a palindromic region on chromosome Y; this record represents the telomeric copy. Chromosome Y also contains a pair of closely related genes in another more telomeric palindrome as well as several related pseudogenes. [provided by RefSeq, Jul 2008]