

Product datasheet for **SC300299**

CDY2B (NM_001001722) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDY2B (NM_001001722) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDY2B
Synonyms:	CDY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC300299 representing NM_001001722.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTTCCCAGGAGTTTGAGGTTGAAGCTATTGTTGACAAAAGACAGGATAAAAAATGGAATACACAG
TATTTGGTTCGGTGAAAGGTTATGACAAACAGGATGACACTTGGGAACCAGAGCAGCACCTCATGAAC
TGTGAAAAATGTGTACATGATTTTAATAGACGACAGACTGAAAAACAGAAAAACTGACATGGACTACA
ACCAGTAGAATTTTTTCAAACAATGCCAGAAGAAGAACTTCCAGATCTACAAAAGCAAATATTCTAAG
AACTCTCTAAAACCTCCAGTGACTGATAAACACCACAGGTCCAAAACTGCAAGTTATTTGCTGCCAGC
AAGAACGTTAGGAGAAAGGCAGCTTCAACTCTCTCCGACACAAAGAATATGGAGATAATAAATTCAACT
ATTGAGACCTTGACCTGACAGCCCTTTGACCACAAGAAAAGTGTGAGTGGCTTTGAGAACTTGAG
AAACTGGACCCTATTGCAGCAGATCAGCAGGACACGGTGGTCTTCAAGGTGACAGAAGGGAACTCTC
CGGGACCCTTTGTACATCCTGGTGCAGAACAGACTGGAATACAGAACAAGACTCAGATGCACCCACTA
ATGTCGCAGATGTCTGGCTCAGTTACTGCTTCTATGGCCACAGGTTTCAGTACCCGAAAGGGTATAGTG
GTATTAATAGACCATTAGCAGCCAATGGGACAACAGACATGCATACCTCAGTTCCAAGAGTGAAAGGT
GGGCAAAGAAATATTACTGATGACAGCAGAGGCCAGCCTTTTATCAAGAAGATGCACTTCACCATAAGG
CTAACAGAAAAGTGCCATCACATACAGAGACATTGTAGTGAAGAAAGAGGATGGATTACCCAGATAGTG
CTATCAACTAGATCGACAGAAAAAATGCACTGAATACAGAAGTAATTAAGAAATGGTTAATGCTCTG
AATAGCGCTGCTGCAGATGACAGCAAGCTCGTGTCTTTCAGTGCAGCTGGAAGTGTCTTTTGTGCGGT
CTTGATTTTGGTACTTTGTGAGGCACTTAAGGAATGACAGAAACACAGCAAGCCTTGAATGGTGGAC
ACCATCAAGAACCTTTGTGAATACTTTTATTCAATTTAAAAAGCCTATTGTTGTATCAGTCAATGGCCCT
GCCATTGGACTAGGTGCATCCATCCTGCCTCTTTGTGATCTCGTGTGGCTAATGAAAAGGCTTGGTTC
CAAACCCCTTATACGACCTTTGGACAGAGTCCAGATGGCTGTTCTTCTATTACATTCCTCCCAAATGATG
GGTAAAGCATCTGCCAATGAAATGTTAATTGCTGGGCGAAAGCTGACAGCACGGGAGGCATGCGCCAAA
GGCCTGCTCTCAGGTATTTTTGACTGGAACCTTTCACCCAAGAGGTTATGATTCAAATTAAGGAGCTT
GCCTCATAACAATGCAATTGACTGGAAGAATGTAAGGCCCTCGTTCGCTGTAATATTAAGTTGGAGTTG
GAACAGGCCAATGAGAGAGAGTGTGAGGTGCTGAGGAAGATCTGGAGCTCAGCCCAAGGGATAGAATCC
ATGTTAAAGTATGTTGAAAATAAAATTGATGAGTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001001722
- 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_001001722.1](#)

RefSeq Size: 1960 bp

RefSeq ORF: 1626 bp

Locus ID: 203611

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 centromeric 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]