

Product datasheet for **RG214700**

CDY2B (NM_001001722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CDY2B
Synonyms:	CDY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214700 representing NM_001001722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTCCCAGGAGTTTGAGGTTGAAGCTATTGTTGACAAAAGACAGGATAAAATGGAATACACAGT
 ATTTGGTTCGGTGGAAAGGTTATGACAAACAGGATGACACTTGGGAACAGAGCAGCACCTCATGAAGT
 TGAAAAATGTGTACATGATTTTAATAGACGACAGACTGAAAAACAGAAAAAAGTGCATGGACTACAACC
 AGTAGAATTTTTCAACAATGCCAGAAGAAGAACTCCAGATCTACAAAAGCAAATATTCTAAGAAGT
 CTCCTAAAAGTCCAGTGAATAACACACAGGTCCAAAAAGTCAAGTTATTTGCTGCCAGCAAGAA
 CGTTAGGAGAAAGGCAGCTTCAACTCTCTCCGACACAAAGAATATGGAGATAATAAATTCAACTATTGAG
 ACCCTTGACCTGACAGCCCTTTGACCACAAGAAAACTGTGAGTGGCTTTGAGAACTTGAGAACTGG
 ACCCTATTGCAGCAGATCAGCAGGACACGGTGGTCTTCAAGGTGACAGAAGGAACTCTCCGGGACCC
 TTTGTCACATCCTGGTGCAGAACAGACTGGAATACAGAACAGACTCAGATGCACCCACTAATGTCGCAG
 ATGTCTGGCTCAGTTACTGCTTCTATGGCCACAGGTTCACTACCCGAAAGGGTATAGTGGTATTATAG
 ACCCATTAGCAGCAATGGGACAACAGACATGCATACCTCAGTTCCAAGAGTGAAAGGTGGGCAAGAAA
 TATTACTGATGACAGCAGAGGCCAGCCTTTTATCAAGAAGATGCACTTCACCATAAGGCTAACAGAAAGT
 GCCATCACATACAGAGACATTGTAGTGAAGAAAGAGGATGGATTCAACCCAGATAGTGTCTCAACTAGAT
 CGACAGAAAAAATGCACTGAATACAGAAGTAATTAAGAAATGGTTAATGCTCTGAATAGCGCTGCTGC
 AGATGACAGCAAGCTCGTGCTGTTCACTGACAGTGGAAAGTGTCTTTGCTGCGGTCTTGATTTTGGGTAC
 TTTGTGAGGCACTTAAGGAATGACAGAAACACAGCAAGCCTTGAATGGTGGACACCATCAAGAAGTTTG
 TGAATACTTTTATTCAATTAAGGCTTATTGTTGATCAGTCAATGGCCCTGCCATTGGACTAGGTGC
 ATCCATCCTGCCTCTTTGTGATCTCGTGTGGGCTAATGAAAAGGCTTGGTTCCAAACCCCTTATACGACC
 TTTGGACAGAGTCCAGATGGCTGTTCTTATTACATCCCCAAAATGATGGGTAAAGCATCTGCCAATG
 AAATGTTAATTGCTGGGCGAAAGCTGACAGCAGGGAGGCATGCGCAAGGCTGGTCTCTCAGGTATT
 TTTGACTGGAAGTTTCAACCAAGAGGTTATGATTCAAATTAAGGAGCTTGCCTCATACAATGCAATTGTA
 CTGGAAGAATGTAAGGCCCTCGTTCGTGTAATTAAGTTGGAGTTGGAACAGGCCAATGAGAGAGAGT
 GTGAGGTGCTGAGGAAGATCTGGAGCTCAGCCCAAGGATAGAATCCATGTTAAAGTATGTTGAAAAATA
 AATTGATGAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214700 representing NM_001001722
 Red=Cloning site Green=Tags(s)

MASQFEFEVEAIVDKRQDKNGNTQYLVRWKGYDKQDDTWEPEQHLMNCEKCVHDFNRRQTEKQKKLTWTTT
 SRIFSNNARRRTSRSTKANYSKNSPKTPVTDKHHRSKNCKLFAASKNVRRKAATSLSDTKNMEIINSTIE
 TLAPDSPFDHKKTVSGFQKLEKLDPIAADQQDTVVFKVTEGKLLRDPLSHPGAEQTGIQNKTMHPLMSQ
 MSGSVTASMATGSATRKGIIVLIDPLAANGTDMHTSVPRVKGQQRNITDDSRGQPFIKKMHFTIRLTES
 AITYRDIVVKKEDGFTQIVLSTRSTEKNALNTEVIKEMVNALNSAAADDSKLVLSAAGSVFCCGLDFGY
 FVRHLRNDRTASLEMVDTIKNFVNTFIQFKKPIVVSVNGPAIGLGASILPLCDLVWANAKAWFQTPYTT
 FGQSPDGCSSITFPKMMGKASANEMLIAGRKLTAAREACAKGLVSQVFLTGFTTQEVMIQIKELASYNIAIV
 LEECKALVRCNIKLELQANERECEVLRIWSSAQGIESMLKYVENKIDF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001722

ORF Size: 1623 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

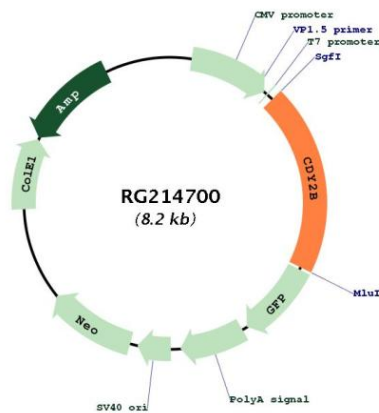
RefSeq: [NM_001001722.1](#), [NP_001001722.1](#)

RefSeq Size: 1960 bp

RefSeq ORF: 1626 bp
Locus ID: 203611
UniProt ID: [Q9Y6F7](#)
Cytogenetics: Yq11.222

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]

Product images:



Circular map for RG214700