

Product datasheet for **RG215911**

CDY1 (NM_004680) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CDY1
Synonyms:	CDY; CDY1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215911 representing NM_004680
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGTTCCAGGAGTTTGAGGTTGAAGCTATTGTTGACAAAAGACAGGATAAAATGGAATACACAGT
 ATTTGGTTCGGTGGAAAGGTTATGACAAACAGGATGACACTTGGGAACCAGAGCAGCACCTCATGAAGT
 TGAAAAATGTGTACATGATTTTAATAGACGACAGACTGAAAAACAGAAAAAAGTACATGGACTACAACC
 AGTAGAATTTTTCAACAATGCCAGAAGAAGAACTCCAGATCTACAAAAGCAAATATTCTAAGAAGT
 CTCCTAAAACGCCAGTGACTGATAAACACCACAGGTCCAAAAACCGCAAGTTATTTGCTGCCAGCAAGAA
 CGTTAGGAGAAAAGGCAGCTTCAATTCTCTCCGACACAAAGAATATGGAGATAATAAATTCAACTATTGAG
 ACCCTTGACCTGACAGCCCTTTGACCACAAAAGTGTGAGTGGCTTTCAGAAAAGTGTGAGAACTGGACC
 CTATTGCGAGCAGTACGACGACACGGTGGTCTTCAAGGTGACAGAAGGAACTCCTCCGGGACCCCTT
 GTCACGTCCTGGTGCAGAACAGACTGGAATACAGAACAAGACTCAGATACCCCACTAATGTCGAGATG
 TCTGGCTCAGTTACTGCTTCTATGGCCACAGGTTACGTACCCGAAAGGGTATAGTGGTATTAATAGACC
 CATTAGCAGCAATGGGACAACAGACATGCATACCTCAGTTCCAAGAGTGAAAGGTGGGCAAGAAGATAT
 TACTGATGACAGCAGAGACCGCTTTTATCAAGAAGATGCACTTCACCATAAGGCTAACAGAAAGTGCC
 AGCACATACAGAGACATTGTAGTGAAGAAAGAGGATGGATTACCCAGATAGTGCTATCAACTAGATCGA
 CAGAAAAAATGCACTGAATACAGAAGTAATTAAGAAATAGTTAATGCTCTGAATAGCGCTGCTGCAGA
 TGACAGCAAGCTCGTGCTGTTCAAGTGCAGCTGGAAGTGTCTTTGCTGCGGTCTTGATTTTGGGTACTTT
 GTGAAGCACTTAAGGAATAACAGAAACACAGCAAGCCTTGAAATGGTGGACACCATCAAGAAGTTGTGA
 ATACTTTTATCAATTTAAAAAGCCTATTGTTGTATCAGTCAATGGCCCTGCGATTGGAAGTGCATC
 CATCCTGCCTCTTTGTGATCTCGTGTGGGCTAATGAAAAGGCTTGGTTCCAAACCCCTTATACGACCTTT
 GGACAGAGTCCAGATGGCTGTTCTTCTATTACATTCCTCCAAAATGATGGGTAAAGCATCTGCCAATGAAA
 TGTTAATGCTGGGCGAAAGCTGACAGCAAGGGAGGCATGCGCCAAAGGCTGGTCTCTCAGGTATTTT
 GACTGGAAGTTTACCCAAGAGGTTATGATTCAATTAAGGAGCTTGCCCTACATACAATCAATTGTAAGT
 GAAGAATGTAAGGCCCTCGTTGCTGTAATTAAGTTGGAGTTGGAACAGGCCAATGAGAGAGAGTGTG
 AGGTGCTGAGGAAGATCTGGAGCTCAGCCCAAGGGATAGAATCCATGTTAAAAATACCTCTGTTGGGATA
 TAAAGCAGCCTTCCTCCAGAAAGACACAGAATGATCAGAGATGGTGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215911 representing NM_004680
 Red=Cloning site Green=Tags(s)

MASQFEFEVEAIVDKRQDKNGNTQYLVRWKGYDKQDDTWEPEQHLMNCEKCVHDFNRRQTEKQKKLWTTT
 SRIFSNNARRRTSRSTKANYSKNSPKTPVTDKHHRSKNRKLFAASKNVRRKAASILSDTKNMEIINSTIE
 TLAPDSPFDHKTSGFQKLEKLDPIAADQDQTVVFKVTEGKLLRDPLSRPGAETGQNKTIHPLMSQM
 SGSVTASMATGSATRKGIIVLIDPLAANGTDMHTSVPRVKGQQRNITDDSRDQPF IKKMHFTIRLTESA
 STYRDIVVKEDGFTQIVLSTRSTKLNTEVIKEIVNALNSAAADDSKLVLFSAAGSVFCCGLDFGYF
 VKHLRNNRNTASLEMVDTIKNFVNTFIQFKKPIVSVNGPAIGLGASILPLCDLVWANAKAWFQTPYTF
 GQSPDGCSSITFPKMMGKASANEMLIAGRKLTAAREACAKGLVSQVFLTGFTTQEVMIQIKELASYNPIVL
 EECKALVRCNIKLELEQANERECEVLRKIWSSAQGIESMLKIPLLGYKAAPPRKTQNDQRWCP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004680

ORF Size: 1662 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_004680.2](#), [NP_004671.1](#)

RefSeq Size: 2373 bp

RefSeq ORF: 1665 bp

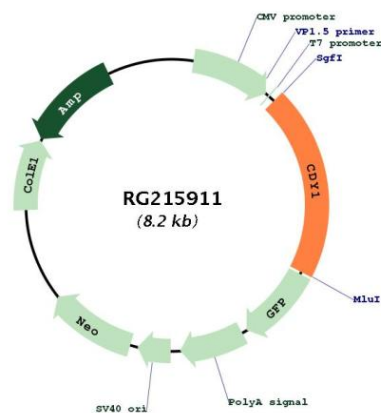
Locus ID: 9085

UniProt ID: [Q9Y6F8](#)

Cytogenetics: Yq11.23

Gene Summary: This 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. The human chromosome Y has two identical copies of this gene within a palindromic region; this record represents the more telomeric copy. Chromosome Y also contains a pair of closely related genes in another more telomeric palindrome as well as several related pseudogenes. Two protein isoforms are encoded by transcript variants of this gene. Additional transcript variants have been described, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215911