

Product datasheet for **RG215813**

CDYL (NM_004824) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CDYL (NM_004824) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CDYL |
| Synonyms: | CDYL1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG215813 representing NM_004824
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACATTTTCAGGCAAGCCACAGGTCAGCCTGGGGAAAAAGCAGGAAGAAAACTGGCAATACGAGGGCC
 CAACCCAAAAGTTATTCCTGAAGAGAAACAACGTGTGACACCAGATGGGCCTTCAGACCCAGCATCTC
 CGTGAGCAGTGAGCAAAGCGGGGCACAGCAGCCTCCCGCTTTACAGGTTGAAAGGATTGTTGACAAAAGG
 AAAAATAAAAAAGGGAAGACAGAGTATTTGGTTCGGTGGAAAGGCTATGACAGCGAGGACGACACTTGGG
 AGCCGGAACAGCACCTCGTGAAGTGTGAGGAATACATCCAGACTTCAACAGACGCCACACGGAGAAGCA
 GAAGGAGAGCACATTGACCAGAACAACAGGACCTCTCCAACAATGCTAGGAAACAAATCTCCAGATCC
 ACCAACAGCAACTTTTCTAAGACCTCTCCTAAGGCACTCGTGATTGGGAAAGACCACGAATCCAAAAACA
 GCCAGCTGTTTGTGCCAGCCAGAAGTTCAGGAAGAACACAGCTCCATCTCTCCAGCCGGAAGAACAT
 GGACCTAGCGAAGTCAGGTATCAAGATCCTCGTGCCTAAAAGCCCGTTAAGAGCAGGACCGCAGTGGAC
 GGCTTTCAGAGCGAGAGCCCTGAGAAACTGGACCCCGTCGAGCAGGGTCAGGAGGACACAGTGGCACCCG
 AAGTGGCAGCGGAAAAGCCGGTTCGGAGCTTTATTGGGCCCGGTGCCGAGAGGGCCAGGATGGGGAGCAG
 GCCCAGGATACCCCACTAGTGCCTCAGGTGCCCGGCCCTGTGACTGCAGCCATGGCCACAGGCTTAGCT
 GTTAACGGGAAAGGTACATCTCCGTTTATGGATGCATTAACAGCCAATGGGACAACCAACATACAGACAT
 CTGTTACAGGAGTGACTGCCAGCAAAAGGAAATTTATTGACGACAGAAGAGACCAGCCTTTTGACAAGCG
 ATTGCGTTTCAGCGTGAGGCAACAGAAAGTGCCTACAGATACAGAGATATTGTGGTCAGGAAGCAGGAT
 GGCTTACCACACATCTTGTTATCCACAAGTCTCAGAGAATAACTCACTAAATCCAGAGGTAATGAGAG
 AAGTCCAGAGTGCTCTGAGCACGGCCGTCGCGATGACAGCAAGCTGGTACTGCTCAGCGCGTTGGCAG
 CGTCTTCTGTTGTGGACTTGACTTTATTTATTTATACGACGCTGACAGATGACAGGAAAAGAGAAGC
 ACTAAAATGGCAGAAGCTATCAGAACTTCGTGAATACTTTCATTCAATTTAAGAAGCCATTATTGTAG
 CAGTCAATGGCCAGCCATTGGTCTAGGAGCATCTATATTGCCTCTTTGCGATGTGGTTTGGGCTAATGA
 AAAGGCTTGGTTTCAAACACCCTATACCACCTTCGGACAGAGTCCAGATGGCTGTTCTACCGTTATGTTT
 CCCAAGATAATGGGAGGAGCATCTGCAAACGAGATGCTGCTCAGTGGACGGAAGTGCAGCGCAGGAGG
 CGTGTGGCAAGGGCCTGGTCTCCAGGTGTTTGGCCCGGACGTTCACTCAGGAAGTATGTTTCGCAT
 TAAGGAGCTTGCCTCGTCAATCCAGTTGTGCTTGAGGAATCAAAGCCCTCGTGCCTGCAACATGAAG
 ATGGAGCTGGAGCAGGCCAACGAGAGGGAGTGTGAGGTGCTGAAGAAAATCTGGGCTCGGCCAGGGGA
 TGGACTCCATGTTAAAGTACTTGCAGAGGAAGATCGATGAGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215813 representing NM_004824
 Red=Cloning site Green=Tags(s)

MTFQASHRSAWGKSRKKNWQYEGPTQKLFKRNNSAPDGPSPDPSISVSSEQSGAQPPALQVERIVDKR
 KNKKGKTEYLVRWKGYDSEDDTWEPEQHLVNCEEYIHDFNRRHTEKQKESTLTRTNRTSPNNARKQISRS
 TNSNFSKTSKALVIGKDHEKNSQLFAASQKFRKNTAPSLSSRNMDLAKSGIKILVPKSPVKSRTAVD
 GFQSESPKLDPVEQGEDTVAPEVAAEKPVGALLGPGAERARMGSRPRIHPLVPQVPGPVTAAMATGLA
 VNGKGTSPFMDALTANGTTNIQTSVTGVTASKRKFIDRRDQPFDKRLRFVSRQTESAYRYRDIVVRKQD
 GFTHILLSTKSSENNLSLNPEVMREVQSALSTAAADSKLVLLSAGSVFCCGLDFIYFIRRLTDDRKRES
 TKMAEAI RN FVNTFIQFKKPIIVAVNGPAIGLGASILPLCDVVWANEKAWFQTPYTTFGQSPDGCSTVMF
 PKIMGGASANEMLLSGRKLTAQEACGKGLYSQVFWPGTFTQEVVRIKELASCNPVVLEESKALVRCNMK
 MELEQANERECEVLKKIWGSQAQGMDSMLKYLQRKIDEF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004824

ORF Size: 1794 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.

RefSeq: [NM_004824.2](#), [NP_004815.2](#)

RefSeq Size: 3432 bp

RefSeq ORF: 1635 bp

Locus ID: 9425

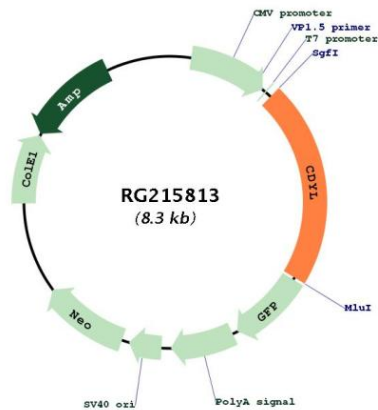
UniProt ID: [Q9Y232](#)

Cytogenetics: 6p25.1

Domains: CHROMO, ECH

Gene Summary: Chromodomain Y is a primate-specific Y-chromosomal gene family expressed exclusively in the testis and implicated in infertility. Although the Y-linked genes are testis-specific, this autosomal gene is ubiquitously expressed. The Y-linked genes arose by retrotransposition of an mRNA from this gene, followed by amplification of the retroposed gene. Proteins encoded by this gene superfamily possess a chromodomain, a motif implicated in chromatin binding and gene suppression, and a catalytic domain believed to be involved in histone acetylation. Multiple proteins are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215813