

Product datasheet for **RG201002**

CDC37 (NM_007065) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC37 (NM_007065) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC37
Synonyms:	P50CDC37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201002 representing NM_007065 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGTGGACTACAGCGTGTGGGACCACATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTCCGCTGGCGGCATCAGGCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAAGGAGAACTGGACAGGGGCTGCCCGAGTGCAAGCGCAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGCAAGGCAGAGCTGGAGCGCCTGCAGGCCGAGGCACAGCAGCTGCCAAGGAGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGAGAAGAGCATGCCCTGGAACGTGGAACAGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCGAGAAGACGGAGGAGACTCAGAGGAGTGAGGGAGCAGAAACAAGACCTTCGTGAAAAATACGAGAAACAGATCAAGCACTTTGGCATGCTTCGCGCTGGGATGACAGCAAAAAGTACCTGTGAGACAACGTCCACCTGGTGTGCGAGGAGACAGCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGTGGCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCGGGCCTGCTCCGGCAGTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTTCAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGCGCAAGAAGCGGCTCGGCCCGGGCCCTGGACCCGTCGAGGTCTACGAGTCCCTCCCTGGAGAACTCCAGAAGTCTCGATGTGAAGGACGTGACATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCAGCGCTGCATTGACTCTGGCCTCTGGTCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGAGAGGAGGCAGGTCTGGGACCCATTACTGGAAGCTGTTCCCAAGACGGCGATGAGAGGATGTCAGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201002 representing NM_007065
 Red=Cloning site Green=Tags(s)

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEEELDRGCRECKRQVAECQRKLKE
 LEVAEGGKAELERLQAEAQQLRKEERSWEQKLEEMRKKESMPWNVDTL SKDGF SKSMVNTKPEKTEEDS
 EEVREQKHKTFFVEKYEQIKHFGMLRRWDSQKYL SDNVHLVCEETANYLVIWCIDLEVEEKALMEQVA
 HQTIVMQF ILELAKSLKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEE
 EERKKRLGPGGLDPVEVYESLPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASE
 AKEGEEAGPGDPLLEAVPKTGDEKDVSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007065

ORF Size: 1134 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_007065.4](#)

RefSeq Size: 1693 bp

RefSeq ORF: 1137 bp

Locus ID: 11140

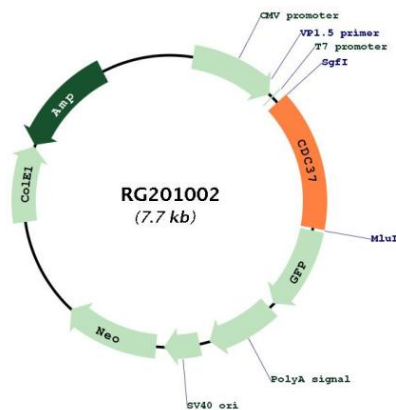
UniProt ID: [Q16543](#)

Cytogenetics: 19p13.2

Domains: Cdc37

Gene Summary: The protein encoded by this gene is highly similar to Cdc 37, a cell division cycle control protein of *Sacchomyces cerevisiae*. This protein is a molecular chaperone with specific function in cell signal transduction. It has been shown to form complex with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. It is thought to play a critical role in directing Hsp90 to its target kinases. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201002