

Product datasheet for **RG214712**

CDC40 (NM_015891) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC40 (NM_015891) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC40
Synonyms:	EHB3; PCH15; PRP17; PRPF17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214712 representing NM_015891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTCTCGATTGCAGCTCTGGCCGCTTCTATGTTTCGGGTTCCAGGTCGGAATCGGACTCGGACA
 GTGAGAGCAGTCCGTGTCCGCTGCCAGCCGCCACTCCCTCATGCACTTACTAAATCGCCTTCATCAAA
 GCCGTCTCTAGCAGTGGCAGTGGACTCGGCTCCGGAGGTGGCAGTTAAGGAAGATTTGGAGACTGGAGTT
 CACCTTGACCCTGCCGTCAAAGAAGTTCAGTATAATCCTACCTATGAGACCATGTTTGTCTGAGTTTG
 GACCAGAAAAATCCCTTTAGGACACAGCAAATGGCTGCCCTAGAAATATGCTTTCTGGATATGCCGAACC
 AGCTCATATCAATGATTTTATGTTTGGCAGCAAAGGAGAAGCTTTTGAACATATGGTTATGCATTAGAC
 CCTTCATTAGATAATCATCAAGTGTCTGCTAAATATATTGGTTCTGTAGAAGAAGCTGAAAAAATCAAG
 GTTTAACTGTATTTGAACTGGTCAAGAAAAACAGAAAAGGAAAAAGTTTAAAGAAAATGATGCATC
 CAATATTGATGGTTTTTTGGGACCATGGGCAAAATATGTGGATGAAAAAGATGTAGCCAAACCTTCAGAA
 GAAGAGCAAAAAGAAATTGGATGAAATCACAGCAAAGAGGCAGAAAAAGGAAAAACAGGAAGAAGAGAAAC
 CTGGGGAGGAGAAGACAATCTTACATGTTAAAGAAATGTATGACTATCAAGGCAGGTCCTATCTTCACAT
 ACCTCAGGATGTTGGTGTAACTACGGTCAACTATGCCACCTGAGAAGTGTATCTTCCAAAAAACA
 ATTCATGTGTGGTCTGGACACACAAAGGGCGTCAGTGCAGTCAGATTGTTTCTCTCTGGCCATTTAT
 TGCTGTCTTGTCCATGGACTGTAAAATTAAGCTATGGGAGGTTTATGGAGAACGGCGCTGTCTGAGAAC
 ATTTATGGTCACAGTAAGGCTGTTAGGGATATCTGCTCAACTGCAGAACACAGTTCTCAGTGCA
 GCCTATGACAGGTATCTTAAGCTCTGGGACACTGAGACAGGACAGTGTATATCAAGATTTACAAACCGAA
 AAGTACCTTATTGTGTCAAATTCATCTGATGAAGATAAGCAAATCTCTTTGTGGCTGGGATGCTGTA
 TAAGAAGATTGTCAATGGGACATTCGAAGTGGAGAAATGTGCAGGAATATGATCGGCATTTGGGAGCT
 GTCAACACCATTGTTTTGTGGATGAGAATAGGAGATTTGTGAGCACATCTGATGATAAAAGCCTAAGAG
 TTTGGGAATGGGATATCCCTGTGGATTTCAAGTACATAGCAGAACCCAGTATGCACTCAATGCCTGCAGT
 GACTTTGTCTCCAAATGGAAAAATGGCTAGCATGCCAATCAATGGACAACCAAATCTTAATTTTTGGAGCA
 CAGAACAGATTTAGATTAATAAGAAAAAATTTTTAAGGGCCATATGGTAGCAGGCTATGCTTGCAGG
 TGGACTTTTACCAGACATGAGTTATGTGATTTCCAGGAGATGGAATGAAAAATTAACATTTGGGACTG
 GAAGACCACAAAATCTACAGTCGATTTAAAGCTCATGATAAAGTGTGTATAGGTGCAGTGTGCCATCCT
 CATGAAACTTCTAAGGTCATAACATGTGGTTGGGATGGTCTCATTAAATTGTGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214712 representing NM_015891
 Red=Cloning site Green=Tags(s)

MSAAIAALAASYGSGSGSESDDSESSRCPLPAADSLMHLTKSPSSKPSLAVAVDSAPEVAVKEDLETGV
 HLDPAVKEVQYNPTYETMFAPEFGPENPFRTQQMAAPRNMLSGYAEPAHINDFMFEQQRRTFATYGYALD
 PSLDNHQVSAKYIGSVEEAEKNQGLTVFETGQKTEKRKFKENDASNIDGFLGPWAKYVDEKDVAKPSE
 EEQKELDEITAKRQKKGKQEEEEKPGEETILHVKEMYDYQGRSYLHQPQDVGNLRSTMPPEKCYLPKKQ
 IHVWSGHTKGVSAVRLFPLSGHLLSCSMDCKIKLWEVYGERRCLRTFIGHSAKVRDIFNTAGTQFLSA
 AYDRYLKLWDTETGQCISRFTNRKVPYCVKFNPDQNLVAGMSDKKIVQWDIRSGEIVQEYDRHLGA
 VNTIVFDENRRFVSTSDDKSLRVWEWDIPVDFKYIAEPSMHSMPAVTLSPNGKWLACQSMNQILIFGA
 QNRFRLNKKKIFKGHMVAGYACQVDFSPDMSYVISGDGNGKLNIDWKTTLKLYSRFKAHDKVCIGAVWHP
 HETSKVITCGWDGLIKLWD

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015891

ORF Size: 1737 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_015891.3](#)

RefSeq Size: 3866 bp

RefSeq ORF: 1740 bp

Locus ID: 51362

UniProt ID: [O60508](#)

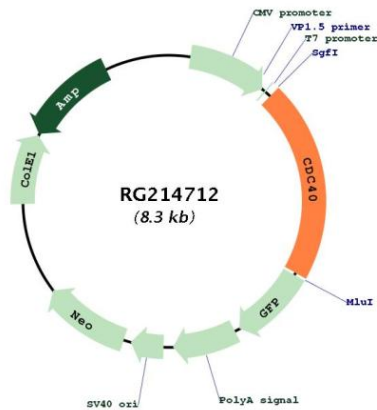
Cytogenetics: 6q21

Domains: WD40

Protein Pathways: Spliceosome

Gene Summary: Pre-mRNA splicing occurs in two sequential transesterification steps. The protein encoded by this gene is found to be essential for the catalytic step II in pre-mRNA splicing process. It is found in the spliceosome, and contains seven WD repeats, which function in protein-protein interactions. This protein has a sequence similarity to yeast Prp17 protein, which functions in two different cellular processes: pre-mRNA splicing and cell cycle progression. It suggests that this protein may play a role in cell cycle progression. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214712