

Product datasheet for **RC209100**

FCP1 (CTDP1) (NM_048368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FCP1 (CTDP1) (NM_048368) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTDP1
Synonyms:	CCFDN; FCP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC209100 representing NM_048368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTGCCGGCCGGGTTCGCGTTCCTGCCGAGGGCGCCCGACGGCGGCTGTGGCCGAGTGCCT
 GCCCGGGGCCCGCGCCGCTGCGCCTGCTGGAGTGGAGGGTGGCGCGGGCGGCCGTGCGCATCGGCTC
 GGTGCTGGCCGTGTTTCGAGGCCCGCCGCTCCGCGCAGTCTCCGGGGCTCTCAGTCCCCTGTAGCTCC
 GGGGGTGCCTGCGCCCCGCGCGCCGGAACGCAGGCTGAGGTCGGAGCGCGGGCGTGGTGGGGAGC
 TGTGCGCGCAGCCGGCCAGGTGGTCCGCCAGGAGCGGTTCTGGTGGGTTGGAAGGATGCAGCCACCC
 GGTTGTCATGAAAGGCCTGTGTCTGAATGTGGCAAGACCTCACCCAGTTGCAGAGTAAGAACGGGAAG
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 GAGGTCTCAGAGCCATCTCCGCCGTGAGAGACCCTGAGGGGTAAACGCAGGCCCTGGAGTGGAGCCCA
 GCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGGCCGCCACCCCGCGGACTCACCCCG
 CCCGGGAAGCCAGACGAGAGGGACATCTGGCCCTGCCAGGCCCCACCAGCAGCCAAGAGCTGGCA
 GCGCTCTGAGCCCCAGGGATCCTGTGCGCAGGGTGGCCGGTGGCACCGGGACAGCGGCTGCCCAGG
 GTGCCACGGGCACTGACCTGGACTTTGACTTATCCAGCGACAGCGAGAGCAGAGTGGTCCGAGGGCAC
 GAAGTCTCTCTCCGCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGCGAGAAGCCGAAGGCTGCC
 CCAGAGGGAGCCGGGGCTGGCACAGGGCAGTCCCTGGAGCCGGGGCGGCTGCAGCACCAGTCTCC
 CCGGAGAGCCGAGCCTGGCGCGCATGCCCCGACAAGGAGCCTGAGCTGGTGGCAGGAGGAGGGCGA
 GCGGGATGGCCTCTGCGCCTGGCAACGGCTGTGCCACAGGAAGGAGGCGGAGACCGAGTACAGAAC
 AGCGAGCTGTCCGGGGTCACTGCGGGTGGTCCCTGGACCAGAGCATGGAGGAGGAGGAGGAGGAGACA
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 GGAGGGTGTGCCCCCACCCTTGTTCACCCGATGCCGTTCTTCCCAAGGCCAGCCTGGCCCCGAG
 GTTCGGATCTACGACTCCAACACGGGGAAGCTCATCAGGACGGGCGCCCGGGGGCCCCAGCCCTCCA
 GCTCCCTACCATCCGCCAGGAGCCTCTTCTTTCAGGTGGACGACATCCTTGGAGAAGGACGCGACGAC
 AGCGACAGCGAGAAGAGGAGGCTGAGGAGCAGGAGGAGGAGCCCGAGCCCGGAAGCCAGGAGCCCGCA
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209100 representing NM_048368
 Red=Cloning site Green=Tags(s)

MEVPAAGRVPAGAPTAAVA E V R C P G P A P L R L L E W R V A A G A A V R I G S V L A V F E A A A S A Q S S G A S Q S R V A S
 G G C V R P A R P E R R L R S E R A G V V R E L C A Q P G Q V V A P G A V L V R L E G C S H P V M K G L C A E C G Q D L T Q L Q S K N G K
 Q Q V P L S T A T V S M V H S V P E L M V S S E Q A E Q L G R E D Q Q R L H R N R K L V L M V D L D Q T L I H T T E Q H C Q M S N K G I F
 H F Q L G R G E P M L H T R L R P H C K D F L E K I A K L Y E L H V F T F G S R L Y A H T I A G F L D P E K K L F S H R I L S R D E C I D P
 F S K T G N L R N L F P C G D S M V C I I D D R E D V W K F A P N L I T V K K Y V Y F Q G T G D M N A P P G S R E S Q T R K K V N H S R G T
 E V S E P S P P V R D P E G V T Q A P G V E P S N G L E K P A R E L N G S E A A T P R D S P R P G K P D E R D I W P P A Q A P T S S Q E L A
 G A P E P Q G S C A Q G G R V A P G Q R P A Q G A T G T D L D F D L S S D S E S S S E S E G T K S S S S A S D G E S E G K R G R Q K P K A A
 P E G A G A L A Q G S S L E P G R P A A P S L P G E A E P G A H A P D K E P E L G G Q E E G E R D G L C G L G N C A D R K E A E T E S Q N
 S E L S G V T A G E S L D Q S M E E E E E E D T D E D D H L I Y L E E I L V R V H T D Y Y A K Y D R Y L N K E I E E A P D I R K I V P E L K
 S K V L A D V A I I F S G L H P T N F P I E K T R E H Y H A T A L G A K I L T R L V L S P D A P D R A T H L I A A R A G T E K V L Q A Q E C
 G H L H V V N P D W L W S C L E R W D K V E E Q L F P L R D D H T K A Q R E N S P A A F P D R E G V P P T A L F H P M P V L P K A Q P G P E
 V R I Y D S N T G K L I R T G A R G P P A P S S L P I R Q E P S S F R W T T S L E K A A T T A T A R R G G L R S R R R S P S P G S Q G P A
 G S G R S G H L R P A R G A R Q G A G G P E A T R G S

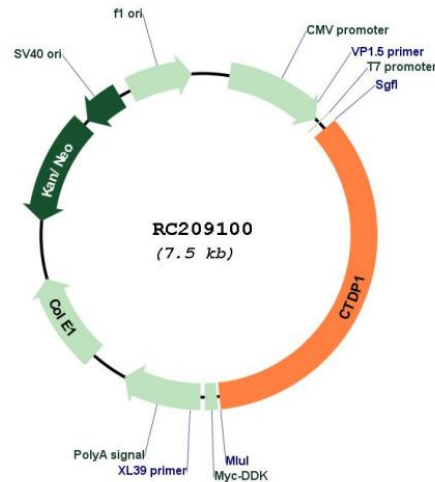
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_048368

ORF Size: 2601 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_048368.4
RefSeq Size:	3612 bp
RefSeq ORF:	2604 bp
Locus ID:	9150
UniProt ID:	Q9Y5B0
Cytogenetics:	18q23
Domains:	BRCT, CPDc
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
MW:	93.3 kDa
Gene Summary:	<p>This gene encodes a protein which interacts with the carboxy-terminus of the RAP74 subunit of transcription initiation factor TFIIIF, and functions as a phosphatase that processively dephosphorylates the C-terminus of POLR2A (a subunit of RNA polymerase II), making it available for initiation of gene expression. Mutations in this gene are associated with congenital cataracts, facial dysmorphism and neuropathy syndrome (CCFDN). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]</p>