

Product datasheet for **SC111100**

FCP1 (CTDP1) (NM_048368) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FCP1 (CTDP1) (NM_048368) Human Untagged Clone
Tag:	Tag Free
Symbol:	FCP1
Synonyms:	CCFDN; FCP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_048368, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGTGCCGGCCGCGGGTCCGTTCTGCGGAGGGCGCCCGACGGCGGCTGTGGCCGAGGTGCGCT
GCCCGGGGCCCGCCGCTGCGCTGCTGGAGTGGAGGGTGGCGGGGGCGGGCGGCTGCGCATCGGCTC
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AGCAAGCTGAACAGCTGGGAAGAGAAGACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGT
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TTTTCTAAAACGGGAAACCTTAGAAATCTTTTCTTGTGGAGACTCAATGGTTTGCATTATTGATGATC
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GTATGACCCTACCTCAACAAGGAGATCGAGGAGGCGCCGGACATCCGCAAGATCGTGCCGGAGCTCAAG
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CGCGGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGTGAGCCCCGACGC
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AGCGACGCGAGAAGAGGAGGCTGAGGAGCAGGAGGAGGAGCCCGACCCCGGAAGCCAGGAGCCCGCA
GGGAGCGGACGCTCGGGGCACCTGCGTCCAGCAGAGGAGCGCGGAGGGGGCCGGGGCCAGAGGCCA
CAAGAGGAAGCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_048368 unedited GAGGAAAAAAGGGAAAAANNANNNTTTTTAAAAAAAATTAATACACCCGCCGTTG NCGCAAAGGGCGGTAGGCGTGTACGGTGGGAAGTCTATAAAGCAGAGCTCATTTAGGTG ACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGCT GGGTTGTGTGCGCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCGTACCGACCG CCCGCCCGCCCTCTGTCCGCGATGGAGGTGCCGCGCGGGTCCGCTTCTGCCGAGGGC GCCCGACGGCGGCTGTGGCCGAGGTGCGCTGCCGCGGCCGCGCGCTGCGCCTGCTG GAGTGGAGGGTGGCGGCCGCGCGGCGCGTGCATCGGCTCGGTGCTGGCCGTGTTGAG GCCCGCCCTCCGCGCGGCCGAACGCAGGCTGAGGTGCGAGCGCGCGGGCGTGGTGGCG GAGCTGTGCGCGCAGCCGGGCCAGGTGGTGCAGCCAGGAGCGGTTCTGGTGGAGTTGAA GGATGCAGCCACCCGTTGTCATGAAAGGCCTGTGTGCTGAATGTGGCAAGACCTCACC CAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGGCGACCGTGTCCATG GTGCACAGCGTCCCGGAGTTCGATGGTGGAGCCTCCGAGCAAGCCTGAACAGCTGTGAA AAGAAGACCAGCAGCGACTGCCACCGAACCCGGAAGCCTGTTGCTCATGGTGGACCTCGC ACCCATAACCTGAATCACACCACCGAACACCATGTACCCCCAAATGCCAACTAAAC GCCTCCTTTCACTTTCCACTGGCCCCGCGCTGACACCCATGCCTTGACCACTCCTCCC TCTGTCTCACACTCGCCATGATCCCCTTCGCACAAATAAACTGCACAACCTCCACAAC TGCAACCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_048368 unedited CACTACTAGTGTACCGCGCCGCTATCTAGNGATCGGTTTTTTTTTTTTTTTTTACAAA AGGATTTTTATTAAGAGAAATCTGTTTGGTGGGTGAGATATGAAATAGATTTACAGAAA CTTTACATCAGGTGTCTCCAAGACATAAAAGGCCGCCAGGAAAAGCAACGCCCCCTTGC CAGGATGCCAGTGGGAGGACGGCAGGATGGCAGCCAGGCCACGTGGCGTGGACCCTGCG TAGGAGGCTGCAGGAAGCTCCAGGCTGCCGACAGTACGGCGTTCGCCGAAATGGGTT CCCTAGGAGGGAGCAGCAGGCGCGGGGTTCCAGGCATGTCTGTGCTGGGCTCGGAGCT CGTGCACGCACACTGTCTGCTTAAACTCCTAGTCCATGTCTCGTGGGACCCCCAAAGCC GTCCCCTAAGGAATGTGCTCTGGTACACAAGGGGAAAACACCAACCCGCCCTTACC AGACAGCGGGCGCACCAGCCTGGGCCACGTGAGCCTCTGCTGAGCTCTTTGGCACAGCAC ACTGGGCCTTTAACACCTGTCACTTACAAAAGTAGACATTCCTGTAGTAAAACCTCTTA AAAACACCTATTTGCAAAATAATGTGTTTCTGTATGTGGAGCTCTGCAAAATATACATG TCTTTGGGAAGAAAGCAGCGTGGACCGAGACTGAGGGCTGGTCCGGGGACNTCCNAATG CTGCTGGAAGTCGGTCAAGCTTCANTCCCTGCCGCTGCCGCGCTCACATGAAGTCTG GAGCTCCGCTCCAGCGCCCTGGCCATCTCGTGGCCCTGGAGCTGCTGGCCCTCGTCT CGTTGCTGGGACTCCTGGTGGACTCGCTGGCGGGCGTCTCTTTTCAGCTACCCTTTG G</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_048368
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_048368.2](#), [NP_430255.2](#)

RefSeq Size: 3602 bp

RefSeq ORF: 2604 bp

Locus ID: 9150

UniProt ID: [Q9Y5B0](#)

Cytogenetics: 18q23

Domains: BRCT, CPDc

Protein Families: Druggable Genome, Phosphatase, Transcription Factors

Gene Summary: 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]

Transcript Variant: This variant (2) is missing a coding exon in the 3' region compared to variant 1. This results in a frame-shift and a shorter isoform (2, also known as FCP1b) with a distinct C-terminus (lacking the carboxy-terminal TFIIIF-binding protein domain) compared to isoform 1.