

Product datasheet for **SC111066**

p60 CAF1 (CHAF1B) (NM_005441) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | p60 CAF1 (CHAF1B) (NM_005441) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | p60 CAF1 |
| Synonyms: | CAF-1; CAF-IP60; CAF1; CAF1A; CAF1P60; MPHOSPH7; MPP7 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005441, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGTCATCACTTGTGAAATAGCCTGGCACAACAAGGAGCCCGTGTACAGCCTGGACTTCCAGCATG
GGACGGCTGGGAGGATCCACAGACTGGCGTCTGCCGGCTGGACACCAATGTCAGGATCTGGAAGGTAGA
AAAGGGACCAGATGGAAAAGCCATCGTGAATTTTTGTCCAATCTTGCTCGTCATACCAAAGCCGTCAT
GTTGTGCGTTTTTCTCCAAGTGGGAAAATTTAGCATCGGGAGGAGATGATGCTGTCATCCTATTGTGGA
AGGTGAATGATAACAAGGAGCCGGAGCAGATCGCTTTTCAGGATGAGGACGAGGCCAGCTGAACAAGGA
GAACTGGACGGTTGTGAAGACTCTGCGGGGCCACTTAGAAGATGTGTATGATATTTGCTGGCAACTGAT
GGGAATTAATGGCTTCTGCCTCTGTGGATAACACAGCCATCATATGGGATGTCAGCAAAGGACAAAAGA
TATCAATTTTTAATGAACATAAAAAGTTATGTCCAAGGAGTAACCTGGGACCCTTTGGTCAATATGTTGC
TACTCTGAGCTGTGACAGGGTGTGCGAGTATACAGTATACAGAAGAAGCGTGTGGCTTTCAATGTTTCG
AAGATGCTGTCTGGAATAGGGGCTGAAGGAGAGGCAAGAAGCTACCGGATGTTTCACGACGACAGCATGA
AGTCTTTCTCCGTAGACTGAGTTTCACTCCCGACGGATCTTTGCTTCTCAGCCAGCTGGATGTGTGGA
ATCTGGTGAAAATGTAATGAATACCACTTATGTTTTCTCCAGGAAGAATCTTAAAAGGCCATCGCTCAT
CTTCCATGTCCTGAAAAGCCACTCTTGCTGTTGCTGCTGTCCGGTCTACTTTGAACTGAGGCCAGTGG
TGGAAACAGGTGTGGAGCTGATGAGTCTGCCCTACCGCTGGTGTGTTGCTGTGGCCTCGGAGGATCCGT
GCTTCTGTATGACACCCAGCAGTCCCTCCCTTTTGTTACGTGTCTAATATACATTACCACACCCTCAGT
GACATTTTCATGGTCCAGCGATGGTGCCTTCTGGCCATTTCTCCACGGACGGTTACTGCTCATTGTGA
CATTTGAGAAAGATGAACTTGAATTCCCTTGAAGAGAAGCCAGTTTGAACATGAGAAGTCTGATAC
AGCAAAGAAAACCAAGAGTCAGACACATCGAGGGTCTTCGCCAGGACCCAGACCGGTAGAGGGAACCCCT
GCCAGCAGAACCAAGACCCAGCAGCCCGGACGACTCCCCCTCAGGCCAGACAGGCCCCAGCCCA
CAGTCATCAGGGACCCTCCCTCCATCACTCTGCTGTCAAAGCCCTTGCCGGGGCCTTCGGAGGAGAA
GACCCTGCAGCCAGTAGTCAAACACAAAAGCCACCCATCCCGGAGGGTCACTCTGAACACACTGCAA
GCCTGGAGCAAGACAACACCCCGGAGAATAAACTTAACACCCTTAAAGACGGACACTCCACCAAGTCTG
TACCAACCAGTGTGATTTCCACCCTTCTACAGAAGAAATTCAGTCAGAGACGCCTGGAGACGCTCAGGG
CAGTCCCCCAGAGCTAAAGCGGCCAGACTCGATGAAAACAAAGGAGGCACGGAAAGTCTGGACCCTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005441 unedited

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GTAACGTACAAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGAAGC
GGCGCGGCTGCGCGGGAGGTGACGGTGCCTCTGACTGTCCGGTCCCTCCAGCATTTTG
CAGCTTCTCCTGCTTTGAAGAAGTAGAACGGTGCAGAAACGTTTTTCCCCTTCGAG
ACTCAGGAGGATGAAAGTCATCACTTGTGAAATAGCCTGGCACAACAAGGAGCCCGTGA
CAGCCTGGACTTCCAGCATGGGACGGCTGGGAGGATCCACAGACTGGCGTCTGCCGGCT
GGACACCAATGTCAGGATCTGGAAGGTAGAAAAGGACCAGATGGAAAAGCCATCGTGGA
ATTTTTGTCCAATCTTGCTCGTCATACCAAAGCGTCAATGTTGTGCGTTTTTCTCCAAC
TGGGAAAATTTAGCATCGGGAGGAGATGATGCTGTCATCCTATTGTGGAAGGTGAATGA
TAACAAGGAGCCGGAGCAGATCGCTTTTCAGGATGAGGACGAGGCCAGCTGAACAAGGA
GAACTGGACGGTTGTGAAGACTCTGCGGGGCCACTTAGAAGATGTGTATGATATTTGCTG
GGCAACTGATGGGAATTAATGGCTTCTGCCTCTGTGGATAACACAGCCATCATATGGGA
TGTCAGCAAAGGACAAAAGATATCAATTTTTAATGAACATAAAAAGTTATGTCCAAGGAGT
AACCTGGGACCCTTTGGTCAATATGTTGCTACTCTGAGCTGTGACAGGGTGTGCGAGT
ATACAGTATACAGAAGAAGCGTGTGGCTTCAATGTTTCAAGATGCTGTCTGGAATAGG
GGCTGAAGGAGAGCAAGAAGCTACGGGATGTTTACGACGACCCGATGAAG
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_005441 unedited GCACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTGCCTTCCAAATTTAATCAATCA ACTCCTTATAAGTGAAATCTAACAATCACTTCAAATACTCTAAAAATTCGACAGAGTAAAA TCTCAAATTACTTTCTCATCTTCTTAATCTTATTGAAAAGGAGTCCCTCCATGAAGTGT GTGCACTTTCACGAGGATGCCAGGGAGGACTCACTGATTTTCACTGGATAACGTTGAA CCGCTCCAGTTTCAGAACTCATCAAAAAGAGGATTTACTACGTTAAAACGTTTCATGTCC CAAGTTAAAAATGGATACTGAATAACAACAGCATCCATATTCTGGAGAAAAATCAGTACA CATGTCACTTCTGTTATAGAAATCCATTTACAGTGTGTCCCGCTCCATGGAAGCCCTGGT CTCAAGCACCTCCAGCTTTACCGTCTCCCTGCACACACCGGGAGCCTGGTAGGCTTCGAG CAGAAGCCGAGGTCCCATCAAGGGTCCAGACTTCCGTGCCTCCTTTGTTTTTCATCGAGT CTGGGCCGCTTTAGCTCTGGGGACTGACCTGAGCGTCTCCAGGCGTCTCTGACTGAATT TCTTCTGTAGAAGGAGTGAAATCACACTGGTTGGTACAGAACTGGTGGAGTGTCCGTC TTTAAAGTGTTATAGTTATTCTNCGGGTAGTGTCTTGTCCAGGCTAGCAGAGTGTC AAAGTGACCTCCGGGATGGGTGGGCTTTGTGNTTGGACTACTGGGCTGCAAGGTCTTC TCCTCCGAAGCCCCGCAAGGGCTTTGACAGCAGATGATGGAGGAAGGTCTGATGACT GTGGGCTGGAGCTGTCTGCCTGAGGGATTCCGCCGCTGCTGGTCTTTGTTCTGCTGGAA GGTTCCCTTACCGNCTTGGGCCGGCAAACCCCAAGGGCTGACCTTGGTTTCTTGCAT AGGAATCCACGCAN |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005441 |
| Insert Size: | 2560 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: | <ol style="list-style-type: none"> 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: | <u>NM_005441.2, NP_005432.1</u> |
| RefSeq Size: | 2297 bp |
| RefSeq ORF: | 1680 bp |
| Locus ID: | 8208 |
| UniProt ID: | <u>Q13112</u> |
| Cytogenetics: | 21q22.12-q22.13 |
| Domains: | WD40 |

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Chromatin assembly factor I (CAF-I) is required for the assembly of histone octamers onto newly-replicated DNA. CAF-I is composed of three protein subunits, p50, p60, and p150. The protein encoded by this gene corresponds to the p60 subunit and is required for chromatin assembly after replication. The encoded protein is differentially phosphorylated in a cell cycle-dependent manner. In addition, it is normally found in the nucleus except during mitosis, when it is released into the cytoplasm. This protein is a member of the WD-repeat HIR1 family and may also be involved in DNA repair. [provided by RefSeq, Jul 2008]