

## Product datasheet for **SC116415**

### **CCT3 (NM\_005998) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | CCT3 (NM_005998) Human Untagged Clone      |
| Tag:                      | Tag Free                                   |
| Symbol:                   | CCT3                                       |
| Synonyms:                 | CCT-gamma; CCTG; PIG48; TCP-1-gamma; TRIC5 |
| Mammalian Cell Selection: | None                                       |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>           |
| E. coli Selection:        | Ampicillin (100 ug/mL)                     |



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**Fully Sequenced ORF:** >OriGene ORF within SC116415 sequence for NM\_005998 edited (data generated by NextGen Sequencing)

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ATGATGGGCCATCGTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGA
AAAGTTCAATCTGGAAACATCAATGCTGCCAAGACTATTGCAGATATCATCCGAACATGT
TTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGGGAGGCATTGTGATGACC
AATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCATG
ATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATT
CTTGCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCTGGAGCAGCAGATGCACCCAACA
GTGGTGATCAGTGCTTACCACAAGGCATTGGATGATATGATCAGCACCCCTAAAGAAAATA
AGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTGAACATCATCAACAGCTCTATT
ACTACCAAAGCCATCAGTCGGTGGTCACTTTGGCTTGCAACATTGCCCTGGATGCTGTC
AAGATGGTACAGTTTGGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGA
GTGGAAAAGATACCTGGAGGCATCATTGAAGACTCCTGTGCTTTCGCTGGAGTCATGATT
AACAAAGGATGTGACCCATCCACGTATGCGGCGCTATATCAAGAACCCTCGCATTGTGCTG
CTGGATTCTTCTGGAATACAAGAAAGGAGAAAGCCAGACTGACATTGAGATTACACGA
GAGGAGGACTTACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTGAG
GACATTATCCAAGTGAAGCCGATGTGGTCACTACTGAAAAGGGCATCTCAGATTAGCT
CAGCACTACCTTATGCGGGCCAATATCAGACCCATCCGCAGAGTCCGGAAGACAGACAAT
AATCGCATTGCTAGAGCCTGTGGGGCCCGGATAGTCAGCCGACCAGAGGAACTGAGAGAA
GATGATGTTGGAACAGGAGCAGGCCTGTTGAAATCAAGAAAATTGGAGATGAATACTTT
ACTTTCATCACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCCTCCGGGGGGCTAGC
AAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTCGCAAT
GTTCTCCTGGACCCTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCCAT
GCCTTGACAGAAAAATCCAAGGCCATGACTGGTGTGGAACAATGGCCATACAGGGCTGTT
GCCAGGCCCTAGAGGTATTCTCGTACCCTGATCCAGAACTGTGGGGCCAGCACCATC
CGTCTACTTACCTCCCTTTCGGGCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTGTA
AATGGTGAGACGGGTACTTTGGTGGACATGAAGGAACTGGGCATATGGGAGCCATTGGCT
GTGAAGCTGCAGACTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGAT
GACATCGTTTCAGGCCACAAAAAGAAAGGCGATGACCAGAGCCGGCAAGGCGGGCTCTC
GATGCTGGCCAGGAGTGA
    
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Clone variation with respect to NM\_005998.4

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005998 unedited

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CCCATTTCAGATGTGTACACGTTTCATATAGGCGGCCGCAATTCGCACGAGGGCTTCTGT
CTGGTTCTCTCTCCAGAGGTTCTGCCGGTCCCCAGCTCTGGGTACCCGGCTCTGCA
TCGCGCTGCCATGATGGGCCATCGTCCAGTGTCTGCTCAGCCAGAACACAAAGCGTGA
ATCCGGTAAGAAAAGTTCAATCTGGTTAACTATCAATGCTGCCAAGACTATTGCAGATAT
CATCCGAACATGTTTGGACCCAAGTCCATGATGAAGATGCTTTTGGACCAATGGGAGG
CATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGC
GGCCAAGTCCATGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCAC
ATCAGTAATTATTCTTGCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCTGGAGCAGCA
GATGCACCCAACAGTGGTATCAGTGCTTACCACAAGGCATTGGATGATATGATCAGCAC
CCTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATGATGCTGAACATCAT
CAACAGCTCTATTACTACCAAAGCCATCAGTCGGTGGTCACTTTGGCTTGAACATTGC
CCTGGATGCTGTCAAGATGGTACAGTTTGGAGAGAATGGTCTGAAAGAGATTGACATAAA
AAAATATGCTAGAGTGGAAAAGATACCTGGAGGCATCATTGAAGACTCCTGTGCTTTCG
TGGAGTCATGATTAACCAGGATGTGACCCATTCACGTATGCGGCGCTATATCACAGACCC
TCGCATTGTGCTGCTGGAATCTTTTCTGGATACCAGACAGGAGCAGCCCTCTG
    
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|                                     |  |
|-------------------------------------|--|
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_005998 unedited<br>AACTTCCAGGGCCGNAAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTT<br>CAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCA<br>AATGACTTAAATTTAATCATCGGAAGCAAATAAATGGAAACCTTACAATAGAGAAGAAT<br>TACATGTCAGTGTCTTTTGGAAAAGTACTGAGCTGGGACAGAAAGGGACTGGGGGCTGCCCC<br>CAACCTGATCCCTTCTGAACAAAGACGTCCACAGTGTTCCTGGCACTCTGGCTCAGGAAA<br>AGGGGAGACTCTGCTGGTCTGTGCATTGAAGTAGCCTTGCCTAGCACTCACTCCTGGCC<br>AGCATCAGGAGCCCGCCTTGCCGGCTCTGGTCATCGCCTTTCTTTTGTGCCTGAAAC<br>GATGTCATCAATTGCGAGTAGCAGAACTGCCGTCTCCACTGCTGTCTTATAAGTCTGCAG<br>CTTCACAGCCAATGGCTCCCATATGCCAGTTCCTTCATGTCCACCAAAGTACCCGTCTC<br>ACCATTTACACCCAGGTCTCACAGTTCCTGGGTGTGCTTGGCCGAAGGGAGGTAAG<br>TAAACGGATGGTCTGGCCCCACAGTTCGGATCAGGGTACGAGGAATGACCTTAGGGC<br>CTGGGCAACAGCCCTGTATGGCCATTGTTCCACACCAGTCATGGCCTTTGGATTTTCTG<br>GTCAGGCATGGGCCACAGCCATCTGGGAGCCCCACCCCTGGCACAGCTTGAGGGTCAG<br>NAGACATTGCGACACCTGCATGGCATCTGGAGGTTGCGTTCTATTCCGAGAGATCTCTT<br>GCTACCCCCAGAGAAATGGGGCAGCCCTTGGGTCTTGCATCAGGGAGAAAGAAAGTATC<br>ANTCCAATTCTTGATTTACAGCCTGCTGTTCAAAATTTTTTCTCAGTCTTGGCGGT<br>GGATATCGG |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_005998  |
| <b>Insert Size:</b>                 | 2000 bp  |
| <b>OTI Disclaimer:</b>              | 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).   |
| <b>Components:</b>                  | 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).   |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                      | <a href="#">NM_005998.3</a> , <a href="#">NP_005989.3</a>  |
| <b>RefSeq Size:</b>                 | 2096 bp  |
| <b>RefSeq ORF:</b>                  | 1638 bp  |
| <b>Locus ID:</b>                    | 7203   |
| <b>UniProt ID:</b>                  | <a href="#">P49368</a>   |
| <b>Cytogenetics:</b>                | 1q22   |
| <b>Domains:</b>                     | cpn60_TCP1   |

**Gene Summary:**

The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Alternate transcriptional splice variants have been characterized for this gene. In addition, a pseudogene of this gene has been found on chromosome 8. [provided by RefSeq, Aug 2010]  
Transcript Variant: This variant (1) encodes the longer isoform (a).