

Product datasheet for **RG221229**

CCT3 (NM_005998) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCT3 (NM_005998) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCT3
Synonyms:	CCT-gamma; CCTG; PIG48; TCP-1-gamma; TRIC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG221229 representing NM_005998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGCCATCGTCCAGTCTGTGCTCAGCCAGAACAAGCGTGAATCCGGAAGAAAAGTTCAAT
 CTGAAAACATCAATGCTGCCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGAT
 GAAGATGCTTTTGGACCAATGGGAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATT
 CAAGTCCAGCATCCAGCGGCAAGTCCATGATCGAAATTAGCCGGACCCAGGATGAAGAGTTGGAGATG
 GGACCACATCAGTAATTATTCTTGCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCTGGAGCAGCAGAT
 GCACCAACAGTGGTATCAGTGCTTACCSCAAGGCATTGGATGATATGATCAGCACCTAAAGAAAATA
 AGTATCCCAGTCGACATCAGTGACAGTATGATGCTGAACATCATCAACAGCTCTATTACTACCAAAG
 CCATCAGTCGGTGGTATCTTTGGCTTGAACATTGCCCTGGATGCTGTCAAGATGGTACAGTTTGAGGA
 GAATGGTCGGAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAAAGATACCTGGAGGCATCATTGAA
 GACTCCTGTGTCTTGCCTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATGCGGCGCTATATCA
 AGAACCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAAAGCCAGACTGACATTGA
 GATTACACGAGAGGAGGACTTACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTGAG
 GACATTATCCAAGTGAAGCCCGATGTGGTATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACC
 TTATGCGGGCCAATATCACAGCCATCCGAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTG
 TGGGGCCCGGATAGTCAGCCGACCAGAGAACTGAGAGAAGATGATGTTGGAACAGGAGCAGGCCTGTTG
 GAAATCAAGAAAATTGGAGATGAATACTTTACTTTTCACTACTGACTGCAAAGACCCCAAGGCCTGCACCA
 TTCTCCTCGGGGGGCTAGCAAAGAGATTCTCTCGGAAGTAGAAGCAACCTCCAGGATGCCATGCCATCA
 GTGTGCAATGTTCTCCTGGACCCTCAGCTGGTGCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCAT
 GCCTTGACAGAAAATCCAAGGCCATGACTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCAGGCC
 TAGAGGTCATTCTCGTACCCTGATCCAGAAGTGGGGCCAGCACCATCCGCTACTTACCTCCCTTCG
 GGCCAAGCACACCAGGAGAAGTGTGAGACCTGGGGTGTAAATGGTGTGAGACGGTACTTTGGTGGACATG
 AAGGAAGTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGACTTATAAGACAGCAGTGGAGACGGCAG
 TTCTGCTACTGCAATTGATGACATCGTTTCAGGCCACAAAAGAAAGGCGATGACCAGAGCCGGCAAGG
 CGGGGCTCCTGATGCTGGCCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221229 representing NM_005998
 Red=Cloning site Green=Tags(s)

MMGHRPVLVLSQNTKRESGRKVSQGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREI
 QVQHPAAKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQMHPTVVISAYRKALDDMISTLKKI
 SIPVDISDSDMMLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIE
 DSCVLRGVMINKDVTHPRMRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEEYIQLCE
 DIIQLKPDVVITEKISDLAQHYLMRANITAIRRVKTDNNRIARACGARIVSRPEELREDDVGTGAGLL
 EIKKIGDEYFTFITDCKDPKACTILLRGASKEILSEVERNLDAMQVCRNVLLDPQLVPGGGASEMAVAH
 ALTEKSKAMTGVQWYRAVAQALEVIPRTLQNCGASTIRLLTSLRAKHTQENCETWGVNGETGLVDM
 KELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGHKKKGDDQSRQGGAPDAGQE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005998

ORF Size: 1635 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.

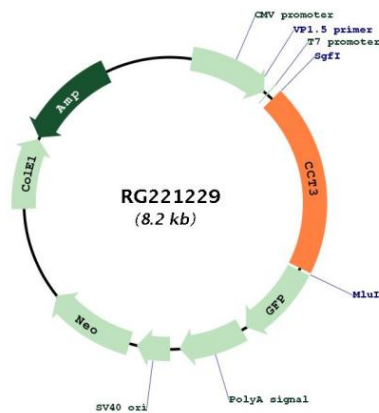
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005998.5](#)
RefSeq Size: 2096 bp
RefSeq ORF: 1638 bp
Locus ID: 7203
UniProt ID: [P49368](#)
Cytogenetics: 1q22
Domains: 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]

Product images:



Circular map for RG221229