

Product datasheet for **RR207456**

Cct2 (NM_001005905) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cct2 (NM_001005905) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cct2
Synonyms:	MGC94480
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207456 representing NM_001005905
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTCCCTTTCCCTTGCACCTGTTAATATCTTCAAGGCTGGAGCTGATGAAGAGAGGGCAGAGACAG
 CTCGCCTGTCATCCTTTATTGGTGCCATTGCCATTGGAGACTTGGTGAAGAGCACTTTGGGACCGAAGGG
 CATGGATAAAATTCCTTCTAAGCAGTGGACGGGATGCCTCTCTGATGGTGACCAATGACGGTGCCACCATT
 CTCAAAAACATCGGTGTTGACAACCCAGCAGCCAAAGTTCTAGTTGATATGTCAAGAGTTCAGGATGATG
 AAGTTGGTGACGGCACCCCTCTGTTACTGTCTTAGCTGCAGAGCTACTCCGGGAAGCGGAATCTTTAAT
 TGCAAAAAGATCCATCCACAGACCATCATTGCGGGTTGGAGGGAAGCCACAAAGGCAGCAAGAGAGGGCC
 CTGCTGAGCTCAGCTGTGGATCATGGTTCTGATGAAGTCAAATTCGGCAAGATTTAATGAATATTGCAG
 GAACAACATTATCCTCAAACTCCTTACTCACCACAAGGACCCTTTACTAAATTAGCTGTAGAAGCTGT
 GCTCAGACTGAAAGGCTCTGGCAATCTGGAGGCGATCCACGTATCAAGAAGCTAGTGGGAGCCTGGCA
 GACTCCTACCTTGATGAAGGTTTTCTCTGGATAAAAAAATTGGAGTAAATCAACCAAGAGAATTGAAA
 ATGCTAAAATTTATTGCGAATACTGGCATGGATACAGACAAAAATAAGATATTTGGCTCTCGGGTAAG
 AGTTGATTCACAGCCAAGGTTGCAGAGATAGAACATGCAGAAAAGGAGAAGATGAAGGAGAAAAGTTGAA
 CGTATTCTTAAGCATGGAATAAACTGCTTTATTAACAGACAGTTAATTTATAATTACCCTGAACAACTCT
 TCGGTGCTGCTGGCGTCATGGCTATTGAGCATGCAGATTTTGCAGGTGTGGAACGCTAGCTCTTGTCCAC
 AGGTGGTGAATTTGCCTACCTTTGATCATCCAGAACTTGTGAAGCTTGGAAAGTTGCAAACTTATTGAA
 GAAGTTATGATTGGGGAAGATAAACTCATTCACTTTTCTGGGGTTGCCCTTGGTGAAGCTTGTACCATTG
 TACTTCGTGGTGCCACTCAGCAAATTTTGGATGAGGCTGAAAGATCTCTGCATGATGCCCTTTGTGTTCT
 TGCCCAAAGTGTAAAAGATCCTAGAACAGTTTATGGAGGAGGTTGTTCTGAGATGCTGATGGCTCATGCT
 GTGACAATGCTTGCCAGTGAACCCAGGAAAAGAAGCCGTAGCAATGGAGTCATTTGCTAAGGCCCTGA
 GAATGTTGCCAACGATCATAGCTGACAATGCAGGCTATGACAGTGCAGATCTGGTGGCACAGCTCCGAGC
 TGCTCACAGTGAAGGCCGTATAACTGCTGGACTGGATATGAAGGAAGGCAGCATTGGTGATATGGCAGTA
 CTGGGTATAACCGAGAGCTTTCAAGTGAAGCGGCAGGTTCTTTTGTAGTGCGGCGGAAGCAGCAGAGGTGA
 TTCTACGAGTGGACAACATCATCAAAGCGGCACCAAGGAAACGTGTCCTGATCACCACCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207456 representing NM_001005905
 Red=Cloning site Green=Tags(s)

MASLSLAPVNIKFAGADEERAETARLSSFIGAIAIGDLVKSTLGPKGMDKILLSSGRDASLMVTNDGATI
 LKNIGVDNPAAKVLVDMRSRVQDDEVDGTTSVTVLAAELLREAESLIAKKIHPQTI IAGWREATKAAREA
 LLSSAVDHGSDEVKFWQDLMNIA GTTSSKLLTHHKDHF TKLAVEAVLRLKSGNLEAIHVIKLLGGSLA
 DSYLDEGFLLDKIGVNPQPKRIENAKIL IANTGMDTDKIKIFGSRVRVDSTAKVAEIEHAEKEKMEKVE
 RILKHGINCFINRQLIYNYPEQLFGAAGVMAIEHADFA GVERLALVTGGEIASTFDHPEL VKLGSCKLIE
 EVMIGEDKLIHFSGVALGEACTIVLRGATQQILDEAERSLH DALCVLAQT VKDPRTVYGGGCSEMLMAHA
 VTMLASRTPGKEAVAMESFAKALRMLPTIIADNAGYDSADLVAQLRAAHSEGRITAGLDMKEGSIGDMAV
 LGITESFQVQRQVLLSAAEAAEILRV DNIKAAPRKRVPDHHPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005905

ORF Size: 1605 bp

OTI Disclaimer: 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_001005905.1](#), [NP_001005905.1](#)
RefSeq Size: 1930 bp

RefSeq ORF: 1608 bp

Locus ID: 299809

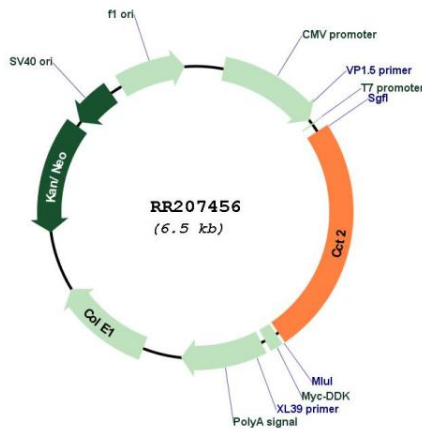
UniProt ID: [Q5XIM9](#)

Cytogenetics: 7q22

MW: 57.5 kDa

Gene Summary: Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis. The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance. As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. The TRiC complex plays a role in the folding of actin and tubulin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR207456