

Product datasheet for **MG208575**

Cct2 (NM_007636) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cct2 (NM_007636) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cct2
Synonyms:	Cctb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208575 representing NM_007636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCCCTTTCCCTCGCACCTGTTAATATCTTTAAGGCTGGAGCTGATGAAGAGAGGGCCGAGACAG
 CTGCCTGTCGTCGTTTATCGGTGCCATCGCCATTGGAGACTTGGTGAAGAGCACTTTGGGACCGAAGGG
 CATGGACAAAATTCTCCTAAGCAGTGGACGAGACGCCGCTCTGATGGTGACCAACGACGGTCTACCATT
 CTCAAGAACATTGGTGTGGACAACCCCGCAGCAAAGGTTCTAGTTGATATGTCAAGGGTTCAAGATGATG
 AAGTTGGTATGGCACTACCTCTGTTACTGTCTTAGCCGAGAGCTGCTCCGGGAAGCAGAATCTTTAAT
 TGCAAAAAAGATACATCCACAGACCATCATCTCAGGTTGGAGAGAAGCCACAAAGGCAGCAAGAGAGGCC
 CTGCTGAGCTCCGCTGTGGATCATGGTTCTGATGAAGCCAGATTCTGGCAGGACTTAATGAACATTGCAG
 GAACGACATTGTCCTCAAAGCTCCTTACTCACCACAAGGACCCTTACTAACTGGCCGTGGAAGCGGT
 TCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCGATTTCATGTCATCAAGAACTAGTGGGAGTCTGGCA
 GACTCCTATCTAGATGAAGGTTTTCTTTGGATAAAAAAATTGGAGTAAATCAACCAAAGAGAATTGAAA
 ATGCTAAAATTCTTATTGCAAATACTGGGATGGATACAGACAAAAATAAGATATTTGGCTCTCGGTAAG
 AGTTGATTCACAGCAAAGGTTGCGAGATAGAACATGCAGAAAAGGAGAAGATGAAGGAGAAAAGTTGAA
 CGTATTCTTAAGCATGGAATAAATTGCTTTATTAACAGACAGTTAATTTATAATTACCCTGAACAACTCT
 TCGGCGCTGCTGGCGTCATGGCTATTGAGCATGCGGATTCGCGAGGTGTGGAGCGCCTCGCTCTTGTCAC
 AGGTGGTGAAGATTGCCTACCTTTGATCACCAGAAGTGTGAAGCTTGGAAAGTTGCAACTTATTGAA
 GAAGTTATGATCGGGGAAGATAAACTCATTCACTTTTCTGGGGTGCCTTGGTGAAGCATGCACCAATTG
 TGCTTCGTTGGTCCCACTCAGCAAATCTGGATGAAGCTGAACGATCTCTGCATGATGCTCTTTGTGTTCT
 TGCTCAGACTGTAAAAGATCCTAGAACAGTTTACGGGGGAGGCTGCTCTGAGATGCTGATGGCCCATGCT
 GTGACACAGCTTGCCAACAGAACCCAGAAAAGAAGCTGTAGCAATGGAGTCGTTTGCAAAAGCCCTGA
 GAATGTTGCCGACCATCATAGCCGACAATGCGGGCTATGACAGTGCAGATCTGGTGGCACAGCTCCGAGC
 TGCTCACAGTGAAGGCCATATAACTGCTGGACTGGATATGAAGGAAGGTACCATCGGCGATATGGCAGTA
 CTGGGTATAACAGAGAGTTTTCAAGTGAAGCGACAGGTTCTTCTGAGTGGGCTGAAGCAGCAGAGGTGA
 TCCTGCGAGTGGACAACATTATCAAAGCAGCACCAAGGAAACGTGTCCCCGATCACCACCCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208575 representing NM_007636
 Red=Cloning site Green=Tags(s)

MASLSLAPVNIKFKADEERAETARLSSFIGAIIGDLVKSTLGPKGMDKILLSSGRDAALMVTNDGATI
 LKNIGVDNPAKVLVDMRSRVQDDEVDGTTSVTVLAAELLREAESLIAKKIHPQTIISGWREATKAAREA
 LLSSAVDHGSDEARFWQDLMNIAGTTLSSKLLTHHKDHF TKLAVEAVLRLKSGNLEAIIHVIKKLGSLA
 DSYLDEGFLLDKKIGVNPQPKRIENAKILIAN TGMDTDKIKIFGSRVRVDSTAKVAEIEHAEKEKMEKVE
 RILKHGINCFINRQLIYNPEQLFGAAGVMAIEHADFA GVERLALVTGGEIASTFDHPELVKLGSKLIE
 EVMIGEDKLIHFSGVALGEACTIVLRGATQQILDEAERSLHDALCVLAQTVKDPRTVYGGGCSEMLMAHA
 VTQLANRTPGKEAVAMESFAKALRMLPTIIADNAGYDSADLVAQLRAAHSEGHITAGLDMKEGTIGDMAV
 LGITESFQVKRQVLLSAAEAAEILRVNDNIKAAPRKRVPDHHPC

TRTRPLE - GFP Tag - V

Restriction Sites:

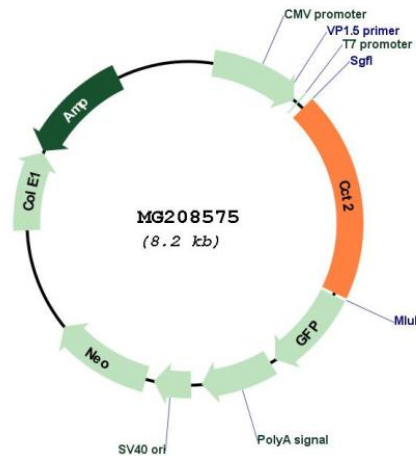
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_007636
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:	<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:	NM_007636.2 , NP_031662.2
RefSeq Size:	1962 bp
RefSeq ORF:	1608 bp
Locus ID:	12461
UniProt ID:	P80314
Cytogenetics:	10 D2
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]