

## Product datasheet for RC233306

### CFC1 (NM\_001270421) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CFC1 (NM\_001270421) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CFC1  
**Synonyms:** CFC1B; CRYPTIC; DTGA2; HTX2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233306 representing NM\_001270421  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCTGGAGGCACCATGTCCAGCTTCTGTTTACGGTCAGTTTGGCATTACAGATCATCAATTTGGGAA  
 ACAGCTATCAAAGAGAGAAACATAACGGCGGTAGAGAGGAAGTCACCAAGGTTGCCACTCAGAAGCACCG  
 ACAGTCACCGCTCACTGGACCTCCAGTCAATTCGGAGAGGTGACTGGGAGCGCCGAGGGCTGGGGCCG  
 GAGGAGCCGCTCCCTACTCCCGGGCTTTCGGAGAGGACCCGAAAGACTTCCTGGCTCCCACGCTCAG  
 GGCCGAGCGCCGGGGCGCGCCAGCCTGCTACTTGTGCTGCCCTGCGCACTCCTGCACCGCTCCTGCG  
 CCCGGATGCGCCCGCGCACCCCTCGGTCCCTGGTCCCTCCGTCTCCAGCGGGAGCGCGCCCTGCGGA  
 AGGCCGGGACTTGGGCATCGCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233306 representing NM\_001270421  
 Red=Cloning site Green=Tags(s)

MTWRHHVRLLFVSLALQIINLGNYSYQREKHNGGREGVEVTKVATQKHRQSPLNWTSSHFGEVTGSAEGWGP  
 EEPLPYRAFGEDEPKDFLASHAHGPSAGGAPSLLLLLPCALLHRLLRPDAPAHPRSLVPSVLQRERRPCG  
 RPGLGHRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001270421

**ORF Size:** 444 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\\_001270421.1](#), [NP\\_001257350.1](#)

**RefSeq Size:** 1452 bp

**RefSeq ORF:** 447 bp

**Locus ID:** 55997

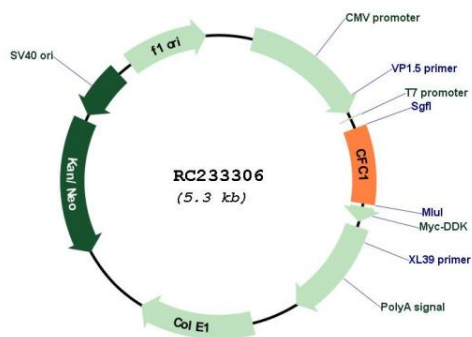
**UniProt ID:** [P0CG37](#)

Cytogenetics: 2q21.1

MW: 16.8 kDa

**Gene Summary:** This gene encodes a member of the epidermal growth factor (EGF)- Cripto, Frl-1, and Cryptic (CFC) family, which are involved in signalling during embryonic development. Proteins in this family share a variant EGF-like motif, a conserved cysteine-rich domain, and a C-terminal hydrophobic region. The protein encoded by this gene is necessary for patterning the left-right embryonic axis. Mutations in this gene are associated with defects in organ development, including autosomal visceral heterotaxy and congenital heart disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

### Product images:



Circular map for RC233306