

Product datasheet for **RG233398**

CFC1 (NM_001270420) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CFC1 (NM_001270420) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CFC1
Synonyms: CFC1B; CRYPTIC; DTGA2; HTX2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233398 representing NM_001270420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCTGGAGGCACCATGTCAGGCTTCTGTTTACGGTCAGTTTGGCATTACAGATCATCAATTTGGGAA
 ACAGCTATCAAAGAGAGAAACATAACGGCGGTAGAGAGGAAGTCACCAAGGTTGCCACTCAGAAGCACCG
 ACAGTCACCGCTCAACTGGACCTCCAGTCAATTCGGAGAGGTGACTGGGAGCGCCGAGGGCTGGGGCCG
 GAGGAGCCGCTCCCTACTCCCGGGCTTTCGGAGAGGTGAATGCGGCGCCCTGGAGCACGGAGCCTGGAC
 CCTCCGCGCTGCCACCTCTGCAGGTGCATCTTCGGGGCCCTGCACTGCCTCCCCCTCCAGACGCCTGAC
 CGCTGTGACCCGAAAGACTTCTGGCCTCCACGCTCACGGGCGGAGCGCCGGGGCGCGCCAGCCTGC
 TACTCTTGCTGCCCTGCGCACTCCTGCACCGCCTCCTGCGCCCGGATGCGCCCGCGACCCCTCGGTCCCT
 GGTCCCTTCCGTCTCCAGCGGGAGCGCGCCCTGCGGAAGGCCGGGACTTGGGCATCGCCTTTAATTT
 TCTATGTTGTAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233398 representing NM_001270420
 Red=Cloning site Green=Tags(s)

MTWRHHVRLRLFVSLALQIINLGNYSYQREKHNGGREGVEVTKVATQKHRQSPLNWTSSHFGEVTGSAEGWGP
 EEPLPYSRAFGEVNAAPWSTEPGPSAPATSAGASSGPCTASPSRRLTAVTRKTSWPPTLTGRAPGARPA
 YSCCPAHSCTASCARMRPTLGPWSLPSSSGSAPAEGRDLGIAFNFLCCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001270420

ORF Size: 573 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_001270420.1](#), [NP_001257349.1](#)

RefSeq Size: 1562 bp

RefSeq ORF: 576 bp

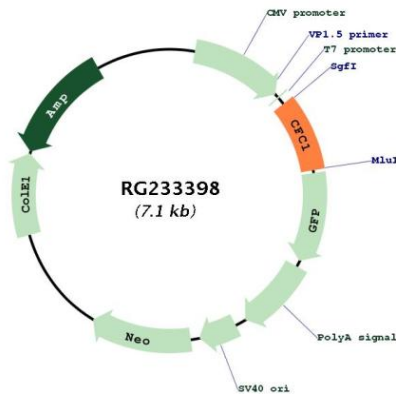
Locus ID: 55997

UniProt ID: [P0CG37](#)

Cytogenetics: 2q21.1

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 RG233398