

# **Product datasheet for RG231931**

# GGCT (NM 001199815) Human Tagged ORF Clone

# **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** GGCT (NM\_001199815) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: GGCT

Synonyms: C7orf24; CRF21; GCTG; GGC

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG231931 representing NM\_001199815
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCAACTCGGGCTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCCCTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCAGATTTTAAGCTTGACTTTGGCAATTCCCAAGGCAAAACAAGTCAAACTTGGCATGGAGGGATAGCCACCATTTTTCAGAGTCCTGGCGATGAAGTGTGGGGAGTAGTATGGAAAATGAACAAAAGCAATTTAAATTCTCTGGATGAGTGGAGAAAAGAAACGTCACACTGCCTTTCAGAATCAGGGAAATCACCCTTGCAAGCACAAGACAAGAATGTGGGATAGAGACCCCAAAATTCCTGTTCAGAACCTAAGCTTAGCTCTCTGTTGGCAGGCCCAATCAGGTCATGGCACCTGTAATAGATTATTTGCATGGGTGCAAAAAGAAAATGGTTTGCCGCTGGAGTATCA

AGAGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231931 representing NM\_001199815

Red=Cloning site Green=Tags(s)

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHGGIAT IFQSPGDEVWGVVWKMNKSNLNSLDEWRKKRHTAFQNQGNHPCKHKTRMWDRDPKIPVQNLSLALCWQAQ

SGHGTCNRLFAWVQKKMVCRWSIKRS

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



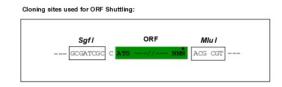
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

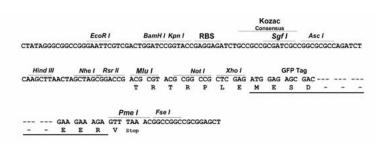
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

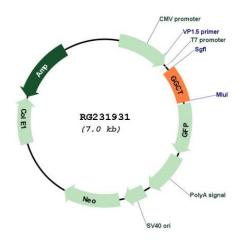


#### **Cloning Scheme:**





### Plasmid Map:



**ACCN:** NM\_001199815

ORF Size: 498 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.



# GGCT (NM\_001199815) Human Tagged ORF Clone - RG231931

**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:** <u>NM 001199815.2</u>

 RefSeq Size:
 1217 bp

 RefSeq ORF:
 501 bp

 Locus ID:
 79017

 UniProt ID:
 075223

 Cytogenetics:
 7p14.3

**Protein Pathways:** Glutathione metabolism

**Gene Summary:** The protein encoded by this gene catalyzes the formation of 5-oxoproline from gamma-

glutamyl dipeptides, the penultimate step in glutathione catabolism, and may play a critical role in glutathione homeostasis. The encoded protein may also play a role in cell proliferation, and the expression of this gene is a potential marker for cancer. Pseudogenes of this gene are located on the long arm of chromosome 5 and the short arm of chromosomes 2 and 20. Alternatively spliced transcript variants encoding multiple isoforms have been observed for

this gene. [provided by RefSeq, Dec 2010]