

Product datasheet for RG231607

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

GGCT (NM 001199817) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GGCT (NM_001199817) 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 >RG231607 representing NM_001199817
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231607 representing NM_001199817

Red=Cloning site Green=Tags(s)

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQIICMGAKENGLPLEYQEKLKAIE

PNDYTGKVSEEIEDIIKKGETQTL

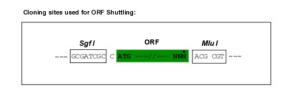
TRTRPLE - GFP Tag - V

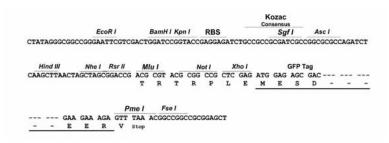
Restriction Sites: Sgfl-Mlul



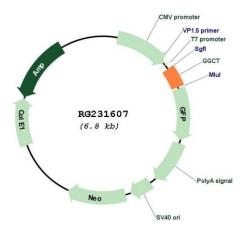


Cloning Scheme:





Plasmid Map:



ACCN: NM_001199817

ORF Size: 282 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



GGCT (NM_001199817) Human Tagged ORF Clone - RG231607

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: <u>NM 001199817.2</u>

 RefSeq Size:
 915 bp

 RefSeq ORF:
 285 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]