

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231931 representing NM_001199815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACCTCGGGCTGCAAGGACGTCACGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCA
GCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCCCTCGGCGGCGTTCTTCTGTGTGGCCCGCTGCA
GGATTTAAGCTTGACTTTGGCAATCCCAAGGCAAAACAAGTCAAACCTGGCATGGAGGGATAGCCACC
ATTTTTAGAGTCTGGCGATGAAGTGTGGGGAGTAGTATGAAAATGAACAAAAGCAATTTAAATTCTC
TGGATGAGTGGAGAAAGAACGTCACACTGCCTTTCAGAAATCAGGAAATCACCTTGAAGCACAAAGAC
AAGAATGTGGGATAGAGACCCCAAAATTCCTGTTGAGAACTAAGCTTAGCTCTCTGTTGGCAGGCCAA
TCAGGTCATGGCACCTGTAATAGATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGAGATCA
AGAGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231931 representing NM_001199815
Red=Cloning site Green=Tags(s)

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDGNSQGKTSQTWGGIAT
IFQSPGDEVWGVVWKMKNLSLNSLDEWRKKRHTAFQNGNHPCPKHKTRMWRDPKIPVQNLALCWQAQ
SGHGTCNRLFVWQKMMVCRWSIKRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	<u>NM_001199815.2</u>
RefSeq Size:	1217 bp
RefSeq ORF:	501 bp
Locus ID:	79017
UniProt ID:	<u>O75223</u>
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]