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Product datasheet for RG231681

GGCT (NM_001199816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGCT (NM_001199816) 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:	>RG231681 representing NM_001199816 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCAACTCGGGCTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCA GCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCCCTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCA GGATTTTAAGCTTGACTTTGGCAATTCCCAAGGCAAAACAAGTCAAACTTGGCATGGAGGGATAGCCACC ATTTTTCAGAGTCCTGGCGATGAAGTGTGGGGAGTAGTATGGAAAATGAACAAAAGCAATTTAAATTCTC TGGATGAATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGAGTATCAAGAGAAGT ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG231681 representing NM_001199816 Red=Cloning site Green=Tags(s) MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHGGIAT IFQSPGDEVWGVVWKMNKSNLNSLDELFAWVQKKMVCRWSIKRS TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI

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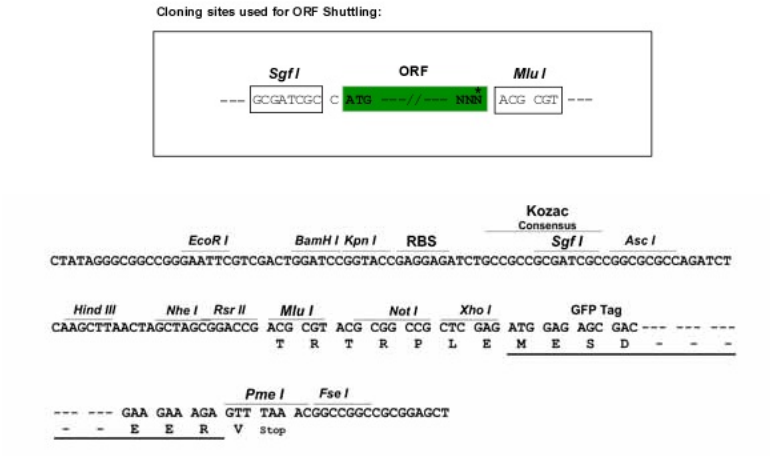
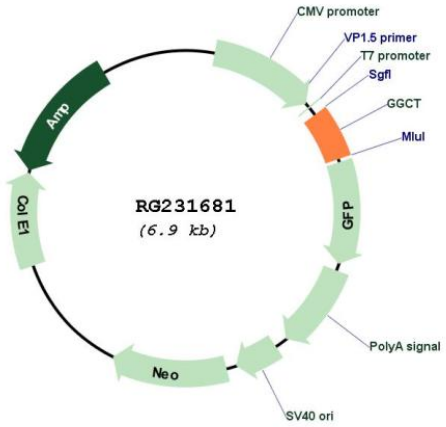
Cloning Scheme:



Plasmid Map:



ACCN: NM_001199816

ORF Size: 342 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_001199816.1, NP_001186745.1
RefSeq Size:	1061 bp
RefSeq ORF:	345 bp
Locus ID:	79017
UniProt ID:	O75223
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]