

Product datasheet for **RG214992**

QPCTL (NM_017659) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QPCTL (NM_017659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	QPCTL
Synonyms:	gQC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214992 representing NM_017659 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTTCGGGGGCGCGGGGACCCCGCTGCGGCTGGGGAACTGGCCTCATGGAGCCACTTTGC
CGCCGAAGCGCCGCTGCTACCGCGGGTTCGGCTCTTGCTTGTGGCGCTGGCCGTGGGCTCGGC
GTTCTACACCATTTGGAGCGGCTGGCACCAGGACTGAGGAGCTGCCGCTGGCCGGGAGCTCGGGTC
CCATTGATCGGAAGCCTCCCGAAGCCCGCTGCGGAGGGTGGTGGACAACCTGGATCCACAGCGTCTCT
GGAGCACTTATCTGCGCCCTGCTGGTTGTGCGAACCCTGGGAGCCCGGAAATCTCCAAGTCAGAAA
GTTCTGGAGGCCACGCTGCGGTCCCTGACAGCAGGTTGGCACGTGGAGCTGGATCCCTTACAGCCTCA
ACACCCCTGGGGCCAGTGGACTTTGGCAATGTGGTGGCCACACTGGACCAAGGGCTGCCGTCACCTCA
CCCTTGCCTGCCATTATGACTCGAAGCTCTTCCACCCGGATCGACCCCTTTGTAGGGGCCACGGATTC
GGCTGTGCCCTGTGCCCTGCTGCTGGAGCTGGCCCAAGCACTTGACCTGGAGCTGAGCAGGGCCAAAAA
CAGGCAGCCCGGTGACCCTGCAACTGCTCTTCTTGGATGGTGAAGAGCGCTGAAGGAGTGGGGACCCA
AGGACTCCCTTACGGTTCGCGCACCTGGCCAGCTCATGGAGTCTATACCTCACAGCCCGGCCCCAC
CAGGATCCAGGCTATTGAGCTCTTATGCTTCTTGATCTCCTGGGAGCCCAATCCACCTTCTACAGC
CACTTCCCTCGCACGGTCCGCTGGTTCCATCGGCTGAGGAGCAATTGAGAAGCGCTGCACCGTTTGAACC
TGCTGCAGTCTCATCCCGAAGTGTGATGACTTCCAACCCGGGAGCCCTCTGGCTCTGTGGAAGACGA
CCACATCCCTTCTCCGAGAGGGTACCCGCTCCATCTCATCTCCACGCCCTTCCCTGCTGTCTGG
CACACCCCTGCGGACACCGAGGTCAATCTCCACCCACCCAGGTACACAACCTGTGCCGATTCTCGCTG
TGTTCTGGCTGAATACCTGGGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214992 representing NM_017659
Red=Cloning site Green=Tags(s)

MRSGGGRPRRLRLGERGLMEPLLPKRRLLPRVRLPLLLALAVGSFYTIWSGWHRRTEELPLGRELRV
 PLIGSLPEARLRRVVGQLDPQRLWSTYLRPLLVRTPGSPGNLQVRKFLEATLRSLTAGWHVELDPFTAS
 TPLGPVDFGNVVATLDPRAARHLTLACHYDSKLFPPGSTPFVVGATDSAVPCALLLELAQALDLELSRAKK
 QAAPVTLQLFLDGEELKEWGPKDSL YGSRHLAQLMESIPHSPGPTRIQAIELFMLLDLLGAPNPTFY
 HFPRTVRWFHRLRSIEKRLHRLNLLQSHPQEVMYFQPGPEPSGSVEDDHIPFLRRGVPVHLIISTPFFAVW
 HTPADTEVNLHPPTVHNLCRILAVFLAEYLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017659

ORF Size: 1146 bp

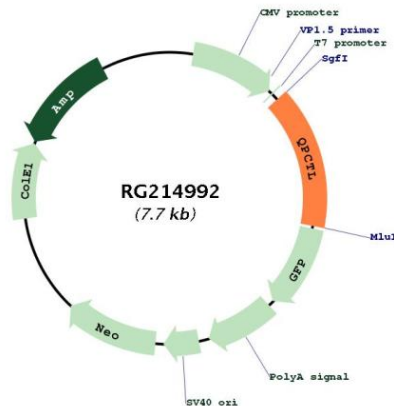
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_017659.1](#), [NP_060129.1](#)
- RefSeq Size:** 1574 bp
- RefSeq ORF:** 1149 bp
- Locus ID:** 54814
- UniProt ID:** [Q9NXS2](#)
- Cytogenetics:** 19q13.32
- Protein Families:** Protease, Transmembrane
- Gene Summary:** Responsible for the biosynthesis of pyroglutamyl peptides.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214992