

## Product datasheet for **RG208388**

### QPCT (NM\_012413) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** QPCT (NM\_012413) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** QPCT  
**Synonyms:** GCT; QC; sQC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208388 representing NM\_012413  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGGCGGAAGACACCGGCGCGTCTGGGCACCTCCACCTGCTGCTGCTGGTGGCCGCCCTGCCCT  
 GGGCATCCAGGGGGTCACTCCGAGTGCCTCAGCCTGGCCAGAGGAGAAGAATTACCACCAGCCAGCCAT  
 TTTGAATTCATCGGCTCTTCGGCAAATGCAGAAGGCACCACTATCTCTGAAATGTGGCAAATGACTTA  
 CAGCCATTGCTGATAGAGCGATACCCGGGATCCCCTGGAAGCTATGCTGCTCGTCAGCACATCATGCAGC  
 GAATTCAGAGGCTTCAGGCTGACTGGGTCTTGGAAATAGACACCTTCTTGAGTCAGACACCTATGGGTA  
 CCGGTCTTTCTCAAATATCATCAGCACCTCAATCCCCTGCTAAACGACATTTGGTCTCGCCTGCCAC  
 TATGACTCCAAGTATTTTCCCCTGGAACAACAGAGTGTGGTAGGAGCCACTGATTCAGCCGTGCCAT  
 GTGCAATGATGTTGGAACCTGCTCGTGCCTTAGACAAGAACTCCTTTCTTAAAGACTGTTTCAGACTC  
 CAAGCCAGATTTGCTCACTCCAGCTGATCTTCTTTGATGGTGAAGAGGCTTTTCTTCACTGGTCTCCTCAA  
 GATTCTCTATGGGTCTCGACACTTAGCTGCAAAGATGGCATCGACCCCGCACCCACTGGAGCGAGAG  
 GCACCAGCAACTGCATGGCATGGATTTATTGGTCTTATTGGATTTGATTGGAGCTCAAACCCAACGTT  
 TCCCAATTTTTTCCAACTCAGCCAGGTGGTTCGAAAGACTTCAAGCAATTGAACATGAACCTTCATGAA  
 TTGGGTTTGTCAAGGATCACTCTTTGGAGGGCGGTATTTCCAGAATTACAGTTATGGAGGTGTGATTC  
 AGGATGACCATATTCATTTTTAAGAAGAGGTGTTCCAGTCTGATCTGATACCGTCTCCTTTCCCTGA  
 AGTCTGGCACACCATGGATGACAATGAAGAAAATTTGGATGAATCAACCATTGACAATCTAAACAAAATC  
 CTACAAGTCTTTGTGTTGGAATATCTTCATTTG

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208388 representing NM\_012413  
 Red=Cloning site Green=Tags(s)

MAGGRHRRVVGTLHLLLLVAALPWASRGVSPSASAWPEEKNYHQPAILNSSALRQIAEGTISEMWQNDL  
 QPLLIERYPGSPGSYAARQHIMQRIQLQADWVLEIDTFLSQTPYGYRSFSNIISTLNPTAKRHLVLACH  
 YDSKYFSHWNNRVFVGATDSAVPCAMMLELARALDKKLLSLKTVSDSKPDL SLQLIFFDGEEAFLHWSPQ  
 DSYLGSRHAAKMASTPHPPGARGTSQLHGMDLLVLLDLIGAPNPTFPNFFPNSARWFERLQAIEHELHE  
 LGLLKDHSLEGRYFQNYSYGGVIQDDHIPFLRRGVPVLHLIPSPFPEVWHTMDDNEENLDESTIDNLNKI  
 LQVFLVLEYLHL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012413

**ORF Size:** 1083 bp

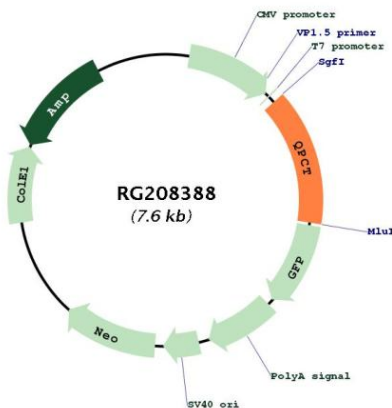
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012413.4</a>
<b>RefSeq Size:</b>	1719 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	25797
<b>UniProt ID:</b>	<a href="#">Q16769</a>
<b>Cytogenetics:</b>	2p22.2
<b>Domains:</b>	Glutaminyl_cycl
<b>Protein Families:</b>	Protease
<b>Gene Summary:</b>	This gene encodes human pituitary glutaminyl cyclase, which is responsible for the presence of pyroglutamyl residues in many neuroendocrine peptides. The amino acid sequence of this enzyme is 86% identical to that of bovine glutaminyl cyclase. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG208388