

## Product datasheet for **SC126499**

### QPCT (NM\_012413) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	QPCT (NM_012413) Human Untagged Clone
Tag:	Tag Free
Symbol:	QPCT
Synonyms:	GCT; QC; sQC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_012413 edited  
 ATGGCAGGCGGAAGACACCGGCGCGTCGTGGGCACCCCTCCACCTGCTGCTGCTGGTGGCC  
 GCCCTGCCCTGGGCATCCAGGGGGT CAGTCCGAGTGCCTCAGCCTGGCCAGAGGAGAAG  
 AATTACCACCAGCCAGCCATTTTGAATTCATCGGCTCTTCGGCAAATTGCAGAAGGCACC  
 AGTATCTCTGAAATGTGGCAAAATGACTTACAGCCATTGCTGATAGAGCGATACCCGGGA  
 TCCCCTGGAAGCTATGCTGCTCGTCAGCACATCATGCAGCGAATTCAGAGGCTTCAGGCT  
 GACTGGGTCTTGGAAATAGACACCTTCTTGAGTCAGACACCCTATGGGTACCGGTCTTTC  
 TCAAATATCATCAGCACCTCAATCCCCTGCTAAACGACATTTGGTCTCGCTGCCAC  
 TATGACTCCAAGTATTTTCCCCTGGAACAACAGAGTGTGGTAGGAGCCACTGATTCA  
 GCCGTGCCATGTGCAATGATGTTGGAACCTGCTCGTGCCTTAGACAAGAACTCCTTTCC  
 TTAAGACTGTTTCAGACTCCAAGCCAGATTTGCTACTCCAGCTGATCTTCTTTGATGGT  
 GAAGAGGCTTTTCTTCACTGGTCTCCTCAAGATTCTCTATGGGTCTCGACACTTAGCT  
 GCAAAGATGGCATCGACCCCGCACCCACCTGGAGCGAGAGGCACCAAGCCAACTGCATGGC  
 ATGGATTTATTGGTCTTATTGGATTTGATTGGAGCTCAAACCCAACTTTCCCAATTTT  
 TTTCCAACTCAGCCAGGTGGTTCGAAAGACTTCAAGCAATTGAACATGAACTTCATGAA  
 TTGGGTTTGTCAAGGATCACTCTTTGGAGGGCGGTATTTCCAGAATTACAGTTATGGA  
 GGTGTGATTCAGGATGACCATATCCATTTTAAAGAGAGGTGTTCCAGTTCTGCATCTG  
 ATACCGTCTCCTTTCCCTGAAGTCTGGCACACCATGGATGACAATGAAGAAAATTTGGAT  
 GAATCAACCATTGACAATCTAAACAAAATCCTACAAGTCTTTGTGTTGGAATATCTTCAT  
 TTGTAA



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_012413 unedited  GGGGTGTGAGAATTTGTATACGACTCATATAGGCGGCCGGAATTCGGCACGAGGGCGGC  CCGGGGAACCCGCTCCANACANACTCGGAGAGATGGCAGGCGGAAGACACCGGCGCGTC  GTGGGCACCCTCCACCTGCTGCTGCTGGTGCCGCCCTGCCCTGGGCATCCAGGGGGGTC  AGTCCGAGTGCCTCAGCCTGGCCAGAGGAGAAGAATTACCACCAGCCAGCCATTTTGAAT  TCATCGGCTCTTCGGCAAATTGCAGAAGGCACCAGTATCTCTGAAATGTGGCAAAATGAC  TTACAGCCATTGCTGATAGAGCGATACCCGGGATCCCCTGGAAGCTATGCTGCTCGTCAG  CACATCATGCAGCGAATTCAGAGGCTTCAGGCTGACTGGGTCTTGAAATAGACACCTTC  TTGAGTCAGACACCCTATGGGTACCCGCTTTTCTCAAATATCATCAGCACCCCTCAATCCC  ACTGCTAAACGACATTTGGTCTCGCCTGCCACTATGACTCCAAGTATTTTTCCCACTGG  AACACAGAGTGTGGTAGGAGCCACTGATTCAGCCGTGCCATGTGCAATGATGTTGGAA  CTGGCTCGTGCCTTAGACAAGAACTCCTTTCTTAAAGACTGTTTCAGACTCCAAGCCA  GATTTGCTACTCCAGCTGATCTTTGATGGTGAAGAGGCTNNTCTTCACTGGTCTNCT  CAAGATTCTCTATGGGTCTCGACTTAGCTGCAAAGATGGCATCGACCCCGCACCCA  CCTGGAGCGAGAGGCACCAGCCAACTGCATGGCATGGATTATTGGTCTTATTGGATTTG  ATTGGAGCTCCAACCCCAACGTTNCCAATTTTTTCCAACCTCANCCAGTGGTTCGAAAGAT  TAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012413
<b>Insert Size:</b>	2200 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_012413.3</a> , <a href="#">NP_036545.1</a>
<b>RefSeq Size:</b>	1719 bp

RefSeq ORF: 1086 bp

Locus ID: 25797

UniProt ID: [Q16769](#)

Cytogenetics: 2p22.2

Domains: Glutaminyl\_cycl

Protein Families: Protease

**Gene Summary:** 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]