

Product datasheet for **MR204454**

Qpct (BC020023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qpct (BC020023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qpct
Synonyms:	5730422A13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204454 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGGCAGCGAAGACAAACGCGTCGTGGGCACTCTCCACCTGCTGCTACTGCAGGCGACCGTCCTGT
CTCTGACAGCTGGGAATCTGAATCTGGTCTCCGGTGCCTGGACGCAGGAGAAGCACATCATGCAACGAAT
TCAGAGACTTCAGGCTGAGTGGGTCGTGGAAGTTGACACCTTCCTGAGTAGGACTCCCTATGGCTATCGG
TCCTTCTCAAATATCATCAGCACTCTTAACCCGGAAGCGAAACGACACCTGGTCCTCGCCTGCCACTACG
ACTCCAATATTTTCTCGATGGGACAGCAGAGTGTGGTGGGAGCCACGGATTCAGCTGTGCCATGTGC
AATGATGTTGGAACCTGCCCCTGCTTAGACAAGAACTCCATTCCTTGAAGGATGTCTCTGGTTCCAAG
CCAGATCTCTCACTCCGGCTAATTTTCTTTGATGGTGAAGAGGCTTTTCATCACTGGTCCCTCAAGATT
CTCTGTATGGGTCTCGGCACTTAGCTCAGAAGATGGCATCAAGCCCTCACCTCCTGGATCAAGAGGCAC
CAACCAACTGGATGGCATGGATCTGTTGGTCTTACTAGATTTAATTGGAGCAGCAAAATCCAACATTCCT
AATTTTTTCCCAAGACTACCAGATGGTTAATAGACTTCAAGCAATTGAAAAGGAACTATGAATTGG
GATTACTCAAGGATCATTCTTTGGAGAGGAAGTATTTTCAGAATTTGGCTATGGAAATATTATCCAGGA
TGACCACATTCATTTTAAGAAAAGGTGTCCCAGTCTTCACCTGATAGCTTCTCCTTTCCCTGAAGTC
TGGCACACCATGGATGACAATGAAGAAAATCTACATGCGTCAACCATTGACAATCTCAACAAAATCATTC
AAGTCTTTGTGTTGGAATATCTCACTTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204454 protein sequence
 Red=Cloning site Green=Tags(s)

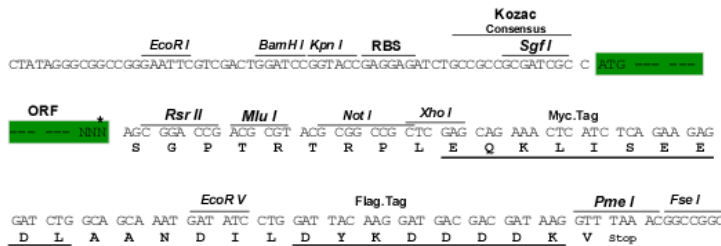
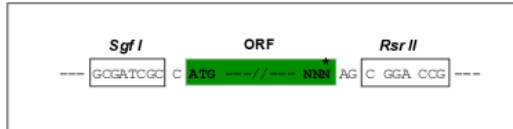
MAGSEDKRVVGTLHLLLLQATVLSLTAGNLNLVSGAWTQEKHIMQRIQRLQAEWVVEVDTFLSRTPYGYR
 SFSNIIISTLNPEAKRHLVLACHYDSKYFPRWDSRVFVGATDSAVPCAMMLELARALDKKLHSLKDVSGSK
 PDL SLRLIFFDGEEAFHHWSPQDSL YGSRHLAQKMASSPHPPGSRGTNQLDGMDDLVLDDLIGAANPTFP
 NFFPKTTRWFNRLQAI EKEL YELGLLKDHSLEKRYFQNFYGNIIQDDHIPFLRKGVPVLHLIASPFPEV
 WHTMDDNEENLHASTIDNLNKI IQVFVLEYLHL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC020023

ORF Size: 939 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: [BC020023](#), [AAH20023](#)

RefSeq Size: 1486 bp

RefSeq ORF: 941 bp

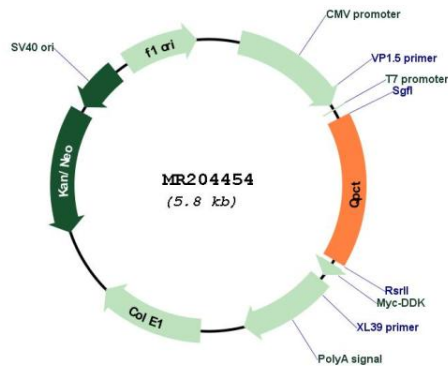
Locus ID: 70536

Cytogenetics: 17 E3

MW: 35.7 kDa

Gene Summary: Responsible for the biosynthesis of pyroglutamyl peptides. Has a bias against acidic and tryptophan residues adjacent to the N-terminal glutaminyl residue and a lack of importance of chain length after the second residue (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204454