

Product datasheet for **MR205978**

Qpctl (NM_026111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qpctl (NM_026111) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qpctl
Synonyms:	1810019P04Rik; BB101812; gQC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205978 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCCCGGGAGCCGCGGGCGGCCCGGCAGCGGCTCGAGGATCGTGGCCTCATGAAACCACCCTCAC
TTTCCAAGCGCCGTCTTCTGCCGCGAGTGCAGTTCCTGCCCTGCTGCTGCGGCTGGCTATGGGCTT
GGCTTTCTATATCGTCTGGAACAGCTGGCACCCGGGGTTGAGGAGATGTCACGGAGCCGGGATCTGCGG
GTCCCGCTGATCGGAAGCCTTTAGAAGCAAGCTGCGGCTGGTGGTAGGGCAGCTGGATCCGCAGCGTC
TCTGGGAACTTTCTGCGTCCCTTATTGATTGTGCGACCCCGGGTAGTTCTGGCAATCTCCAAGTGAG
AAAGTTCTCTGGAGCTACGTTGCAGTCCCTGTCGCGAGGCTGGCATGTTGAACTGGACCCATTACGGCC
TCAACCCCTTGGGGCCACTGGACTTCGGGAACGTGGTGGCCACACTTGACCCAGGAGCTGCCCGTCACC
TCACCCCTGCCTGCCATTATGACTCTAAGTTCTTCCCTCCGGGTTGCCCCCTTTGTGGGGGCCACAGA
TTCAGCTGTGCCCTGTGCCCTGCTTCTGGAGTTGGTCCAGGCCCTTGATGCCATGCTGAGCAGAATCAAG
CAGCAGGCAGCACCGGTGACCCTGCAGCTGCTTTCTTGGATGGGAGGAGGCACTGAAGGAGTGGGGAC
CAAAGGACTCCCTCTATGGCTCCCGCACCTAGCTCAGATCATGGAGTCTATACCACACAGCCCTGGCCC
CACCAGGATCCAGGCTATTGAGCTCTTTGTCCTCCTCGACCTTCTGGGAGCATCCAGTCCGATCTTCTTC
AGTCATTCCCTCGCACAGCCCGCTGGTCCAGCGACTGAGGAGCATTGAGAAGCCGCTTCACCGGCTGA
ACCTACTGCAGTCTACCCCGAGGAAGTGTACTTCCAACCCGGGAGCCCGGCCCTGTGGAAGA
TGACCACATCCCTTCTTTCGAGAGGGTCCCGGTGCTCCACCTCATTGCCACGCCCTTCCCTGCTGTG
TGGCACACACCTGCTGACACCGAGGCCAACCTCCACCCACCCACTGTGCATAACCTGAGCCGCATCCTTG
CTGTGTTCTGGCCGAGTACCTGGGACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205978 protein sequence
Red=Cloning site Green=Tags(s)

MSPGSRGRPRQRLEDRGLMKPPSLSKRRLPRVQFLPLLLLALAMGLAFYIVWNSWHPGVEEMSRSRDLR
 VPLIGSLSEAKLRLVVGQLDPQRLWGTFLRPLLIVRPPGSSGNLQVRKFLEATLQSLSAGWHVELDPFTA
 STPLGPLDFGNVVATLDPGAARHLTLACHYDSKFFPPGLPPFVGATDSAVPCALLELVQALDAMLSRIK
 QQAAPVTLQLLFLDGEEALKWGPKDSL YGSRHLAQIMESIPHSPGPTRIQAIELFVLLDLLGASSPIFF
 SHFPRTARWFQRLRSIEKRLHRLNLLQSHPQEVMYFQPGPEPPVEDDHIPLFRRGVPVLHLIATPFPVAV
 WHTPADTEANLHPPTVHNL SRLILAVFLAEYLG L

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026111

ORF Size: 1152 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_026111.3](#), [NP_080387.2](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1152 bp

Locus ID: 67369

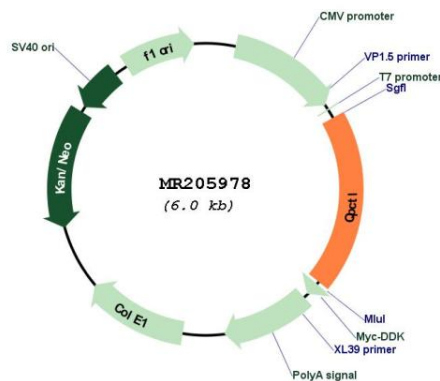
UniProt ID: [Q8BH73](#)

Cytogenetics: 7 A3

MW: 42.7 kDa

Gene Summary: Responsible for the biosynthesis of pyroglutamyl peptides.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205978