

Product datasheet for **MR203868**

Pqlc2 (NM_145384) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pqlc2 (NM_145384) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pqlc2
Synonyms: BC019216
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203868 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCAGGCCCTACTGTTGGTTCCTGCTGGGCTGGATCGGTGGAGATTCCTGCAACCTCATTGGCT
CCTTTCTGGCAGACCAGTACCCTGCAGACCTACACGGCTGTGTATTATGTCCTGGCCGACCTGATGAT
GCTGACGCTGTAATCCATTATAAGTTCAAGAAGCGACCTTCTCCGTTGTCTGCCCTATCAATTCTGTG
CTCTTGTTCATCTGGGGACGGTGTATCACACCACTGTTGAGCAGCACTGATCCTGTGGCTGTCCCA
GGGAAGGCTTCCGGGGCGGACACTCCTGTCTGTGGAGCCAGGAATAAGCCCTTCACAAAGAAGGAGGT
CATCGGCTTTGTCATCGGCTCCGCTCCAGCTTGTGTACCTGCTCTCGAGGCTGCCTCAGATTCGCACC
AATTTACATACGGCAGTCAACCAAGGCATCCTACTCGCTGTTGCGCACTGGTGTGCTGGGGAACACGC
TGTACGGGCTCAGCGTGTGCTCAAGAACCCGAGGTGGGCCAGAGTGAGGGCAGCTACCTGCTGCACCA
CCTGCCCTGGCTCGTGGGACGCTGGGGTGTGCTGCTGCTGCACACCATCGTATCCTTCAAAGCGTGTGAT
GTTGGCACCGTGTGTGGCAAGACGGCCTCTGCTTCAAGTGTGCACATCCCTGCCAGCCACCCCTCTGT
CTACATACTCATCCACCTGCCATTAGCACATTCACCTATTGTCGCGTGTGCTTCCATCTACAATCCA
GCCTTTAACCACCTTCAATTTACCATCCAACCTCATCCACCCACCCATCACCACTTAGACACCTATCC
ATCTATGCACTCACC

**ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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Protein Sequence: >MR203868 protein sequence
Red=Cloning site Green=Tags(s)

MDQALSLWFLLGWIGDSCNLIGSFLADQLPLQTYTAVYYVLADLMMLTLYFHYKFKRPSLSAPINSV
 LLFILGTVICITPLLSSSTDPVAVPREGFRGRTLLSVEPGNKPFTKKEVIGFVIGSASSLLYLLSRLPQIRT
 NFIRQSTQGISYSLFALVMLGNTLYGLSVLLKNPEVQGSEGSYLLHHLPLWVGSGLVLLDITIVSFKACD
 VGTVVWARRPLLQCAHPCQPTPLSTYSSTCPLAHSPIRPCVLPSTIQPLTTLHLPIQHPPTHHPLRHLS
 IYALT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145384

ORF Size: 858 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: [NM_145384.1](#), [NP_663359.1](#)

RefSeq Size: 2047 bp

RefSeq ORF: 882 bp

Locus ID: 212555

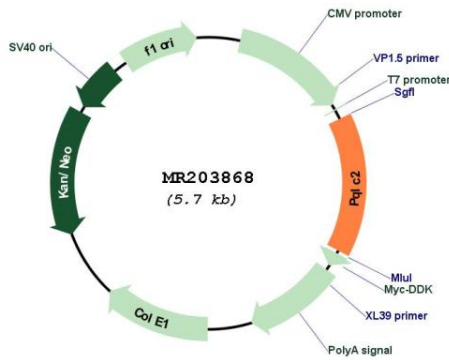
UniProt ID: [Q8C4N4](#)

Cytogenetics: 4 D3

MW: 31.4 kDa

Gene Summary: Amino acid transporter that specifically mediates the pH-dependent export of the cationic amino acids arginine, histidine and lysine from lysosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203868