

Product datasheet for **RR208554**

Pmpcb (NM_022395) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pmpcb (NM_022395) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pmpcb
Synonyms:	Mppb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR208554 representing NM_022395
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGGCGCTGTATCCCGGACGTTGTTGCCGGTGGCCGGACGGCGCCTGTGGGGATTACGCGAA
 GGCTTCCGCTCCGCGCCCGCTGCTCAGCCATTGTACTTTGGAGGGGACCGACTCAGAAGTACACAGGC
 TGCTCCACAAGTTGTTCTGAATGTTCTGAGACACAAGTCACTTGTGGAAAATGGACTCAGGGTAGCT
 TCTGAAAACCTCTGGGATCTCAACATGCACCGTTGGGCTGTGGATCGATGCTGGCAGTCGGTATGAGAATG
 AAAAGAACAATGGCACCCTCACCTTCTGGAGCACATGGCTTTCAAGGGCACTAAAAAGAGGTCCCAGTT
 AGACCTTGAACCTGAGATTGAGAACATGGGTGCCATCTCAATGCCTATACCTCCAGAGAGCAGACTGTC
 TACTACGCCAAAGCCTTCTCAAAGATTGCAAGAGCTGTAGAAATCTTGCTGACATAATTGAGAACA
 GTACATTGGGAGAGGCAGAGATTGAACGTGAGCGTGGAGTCATCCTCAGAGAAATGCAGGAAGTTGAGAC
 CAACTTGAAGAAGTTGCTTTGATTATCTGCACGCCACAGCCTATCAAAACACCGCGCTCGGACGGACA
 ATTCTGGGACCAACCGAGAACATCAAATCTATAAGCCGTAAGGACTTAGTGGACTACATAACCACACATT
 ATAAGGGACCAAGAATCGTGCTGGCTGCTGCTGGAGGTGTTTGCATAACGAACTGCTGGAGTTAGCGAA
 GTTTCATTTTGGTGACTCTTTGTGCGCACACAAAGGAGATGTACCAGCTCTGCCTCCCTGTAATCACT
 GGAAGCGAGATTCGGGTGAGGGATGACAAGATGCCACTGGCGCACCTCGCAGTGGCTATTGAAGCAGTTG
 GTTGGACGCACCCAGACACGATCCGTCTCATGGTCGAAACACACTGATAGGCAACTGGGACCGCTCTTT
 CGGAGGAGGAATGAATTTATCGAGCAAGCTGGCCAGCTCACGTGCCATGGCAATCTCTGCCACAGCTTC
 CAGTCTTCAACACCTCCTACACAGACACAGGATTGTGGGGCTCTATATGGTTTGTGAACAAGCCACAG
 TTGCTGACATGCTGCACGCTGTACAAAAGGAATGGATGCGTCTGTGCACAGCTGTTAGTGAGAGAGGAGG
 CGCACGCCCAAAAACCTTCTCAAGACAACATGCTGCTGCAGCTTGTGGGTCAACTCCGATCTGTGAA
 GACATCGGTAGGCAGATGCTATGCTACAACAGGAGAATCCCATCCCTGAGCTTGAGGCCAGGATCGATG
 CTGTGGACCGGAGATGGTTCGAGAAGTGTGCACCAAGTACATTTATGGCAAAAGCCCGCCATTGCTGC
 TCTCGGTCTATTGAGCGCTTACCAGATTTTAAACCAGATTTGTAGTAACATGCGCTGGACTCGTGAC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208554 representing NM_022395
 Red=Cloning site Green=Tags(s)

MAAAVSRLLPVAGRRLWGFTRRLPLRAAAQPLYFGDRLRSTQAAPQVVLNVPETQVTCLENGLRVA
 SENSGISTCTVGLWIDAGSRYENEKNNGTAHFLEHMAFKGTTKRSQLDLELEIENMG AHLNAYTSREQTV
 YYAKAFSKDLPRAVEILADIIQNSTLGEAEIERERGVILREMQEVETNLQEVVFDYLHATAYQNTALGRT
 ILGPTENIKSISRKDLVDYITTHYKGPRIVLAAGGVCHNELLELAKFHFGDSLCAHKGDVPALPPCKFT
 GSEIRVRDDKMP LAHLAVAIEAVGWTHPDTIRLMVANTLIGNWDRSFGGMMNLSSKLAQLTCHGNLCHSF
 QSFNTSYTDTGLWGLYMVCEQATVADMLHAVQKEWMRLCTAVSESEVARAKNLLKTNMLLQLDGSPTICE
 DIGRQMLCYNRRIPPELEARIDAVDAEMVREVCTKYIYGKSPAIAALGP IERLPDFNQICSNMRWTRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

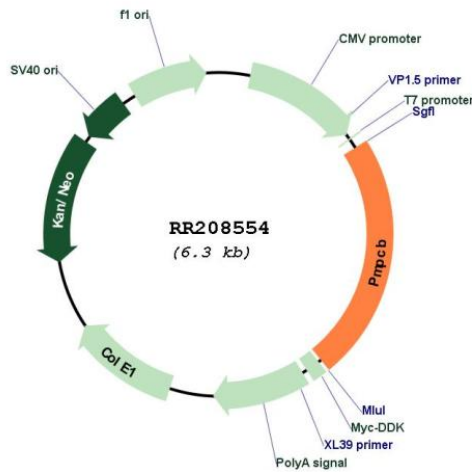
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_022395

ORF Size:

1467 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_022395.2](#), [NP_071790.1](#)

RefSeq Size: 1569 bp

RefSeq ORF: 1470 bp

Locus ID: 64198

UniProt ID: [Q03346](#)

Cytogenetics: 4q11

MW: 54.3 kDa

Gene Summary: beta subunit of mitochondrial processing peptidase, which catalyzes cleavage of the amino terminal leader peptide of nuclear encoded mitochondrial proteins [RGD, Feb 2006]