

Product datasheet for MR204423

Ppcs (NM_026494) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppcs (NM_026494) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppcs
Synonyms:	6330579B17Rik; AI413471; AI790434
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204423 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAAATGGACCTGGTGGCTGAGTTGCCGCTCCTGCGGGTCTGCGCGCTGGGCCGAGGTTATGG
CTCGCTTTCGGCCAGGCTGGGCGAGCAGGGCCGGCGGGTGGTCTGATCACATCTGGAGGCACCAAGGT
CCCCCTGGAAGCGCGAGCTGTGCGCTTCTGGACAACCTCAGTAGCGGGCGACCGGAGCCGCTCGGCC
GAGGTCTTCTGGCTGCCGGCTATGGAGTCTGTTCTTGTACCGAGCGCGCTCGGCCTTCCCTATGCC
ACCGCTTCCCAGCCAGGCTGTGAGCCCTCGGCCTTCTGCCCCAGCCAGTCGGCAAGCTGAG
TCTGGAGGCCGAAGAAATGCGCTCCCGGCTTTGCTGCAGCATTGCAGAGCTACCAAGAGGCAGCCGCT
GCCGGCACCTTCTGGCTGTAGAGTTTACCACTTTGGCGGATTATCTGCATCTGCTGCAGGCTGCTGCC
TGGCTCTCAGTCCATTAGGCTCTTCTGCGATGTTTTACCTGGCCGCGGCAGTGTGAGATTCTATATTCC
TGCTCCGAAATGCCTGAACACAAGATCCACTCATCTGGTGGCCCACTGCAGATAACAATGAAGATGGTG
CCAAAGATGCTTCCCCTCTGGTCAAAGACTGGGCTCCTAAAGCGTTTGTAGTTTCTTTAAGCTGGAGA
CAGACCCGGACATCATAATCAGTCGGGCTCGGAATGCTTTGGAAGTTTACCAGCATCAGGTGGTGGTGGC
CAACATCTGGAGTCAATAAAGTCCTTTGTGATTATTGTAACCAAAGACTCGGAGACAGAGTTACTGCTG
TCCGAGGAGGAGTGGCAAAGGCTTGGTGATAGAAGAGAAGATAGTAGATGACCTTCGGTCTCGACACA
CAGCTTTTATATGTGACAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204423 protein sequence
 Red=Cloning site Green=Tags(s)

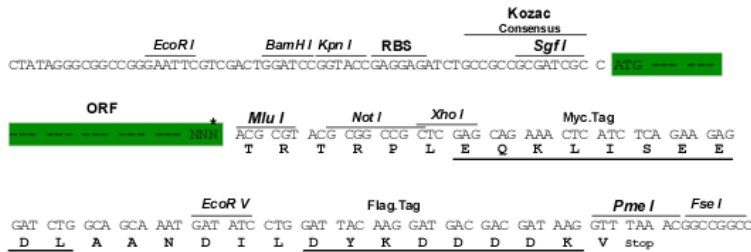
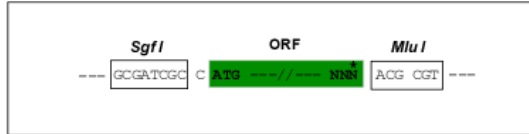
MAEMDLVAELPRPAGAARWAEVMARFAARLGEQGRVVLITSGGTKVPLEARAVRFLDNFSSGRRGAASA
 EVFLAAGYGVFLYRARSAPFYAHRFPQAWLSALRPSGPAQSGKLSLEAEENALPGFAALQSYQEAAA
 AGTFLAVEFTTLADYLHLLQAAALALSPLGSSAMFYLAAAVSDFYIPVSEMPEHKIHSSGGPLQITMKMV
 PKMLSPLVKDWAPKAFVVSFKLETDPDIIISRARNALEVYQHVVVANILESISKSFVIIIVTKDSETELLL
 SEEEVAKGLVIEEKIVDDLRSRHTAFICDKN

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_026494

ORF Size: 936 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_026494.2](#), [NM_026494.3](#), [NP_080770.2](#)

RefSeq Size: 1440 bp

RefSeq ORF: 936 bp

Locus ID: 106564

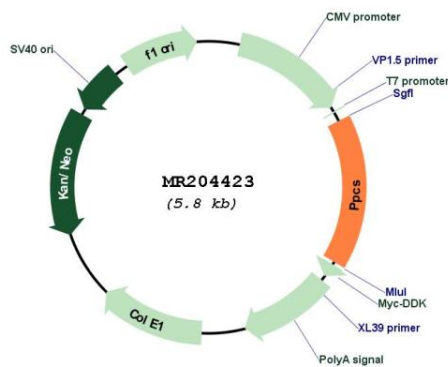
UniProt ID: [Q8VDG5](#)

Cytogenetics: 4 D2.1

MW: 33.8 kDa

Gene Summary: Catalyzes the first step in the biosynthesis of coenzyme A from vitamin B5, where cysteine is conjugated to 4^l-phosphopantothenate to form 4-phosphopantothenoylcysteine.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204423