

Product datasheet for **MG204423**

Ppcs (NM_026494) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppcs (NM_026494) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ppcs
Synonyms: 6330579B17Rik; AI413471; AI790434
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204423 representing NM_026494
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAAATGGACCTGGTGGCTGAGTTGCCGCTCCTGCGGGTCTGCGCGCTGGGCCGAGGTTATGG
 CTCGCTTTCGGCCAGGCTGGGCGAGCAGGCGCGGGTGGTGTGATCACATCTGGAGGCACCAAGGT
 CCCCTGGAAGCGCGAGCTGTGCGCTTCTGGACAACCTCAGTAGCGGGCGACCGGAGCCGCTCGGC
 GAGGTCTTCTGGCTGCCGGCTATGGAGTCTGTTCTTGTACCGAGCGCGCTCGGCCTCCCTATGCC
 ACCGCTTCCCAGCCAGGCTGGCTGTAGCCCTTCGGCCTTCTGCCCCAGCCAGTCGGCAAGCTGAG
 TCTGGAGGCCAAGAGAATGCGCTCCCGGCTTTGCTGCAGCATTGCAGAGCTACCAAGAGCAGCCGCT
 GCCGGCACCTTCTGGCTGTAGAGTTTACCACTTTGGCGGATTATCTGCATCTGCTGCAGGCTGCTGCC
 TGGCTCTCAGTCCATTAGGCTCTTCTGCGATGTTTACCTGGCCGCGGCAGTGTGAGATTCTATATTCC
 TGTCTCCGAAATGCCTGAACACAAGATCCACTCATCTGGTGGCCCACTGCAGATAACAATGAAGATGGTG
 CCAAAGATGCTTCCCCTCTGGTCAAAGACTGGGCTCCTAAAGCGTTTGTAGTTTCTTTAAGCTGGAGA
 CAGACCCGGACATCATAATCAGTCGGGCTCGGAATGCTTTGGAAGTTTACCAGCATCAGGTGGTGGTGGC
 CAACATCTGGAGTCAATAAAGTCTTTGTGATTATTGTAACCAAAGACTCGGAGACAGAGTTACTGCTG
 TCCGAGGAGGAGTGGCAAAGGCTTGGTATAGAAGAGAAGATAGTAGATGACCTTCGGTCTCGACACA
 CAGCTTTTATATGTGACAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204423 representing NM_026494
Red=Cloning site Green=Tags(s)

MAEMDLVAELPRPAGAARWAEVMARFAARLGEQGRVVLLITSGGTKVPLEARAVRFLDNFSSGRRGAASA
 EVFLAAGYGVFLYRARSAPFYAHRFPQAWLSALRPSGPAQSGKLSLEAEENALPGFAAALQSYQEAAA
 AGTFLAVEFTLLADYLHLLQAAALALSPLGSSAMFYLAAAVSDFYIPVSEMPEHKIHSSGGPLQITMKMV
 PKMLSPLVKDWAPKAFVVSFKLETDPDIIISRARNALVYQHVVVANILESISKSFVIIIVTKDSETELLL
 SEEEVAKGLVIEEKIVDDLRSRHTAFICDKN

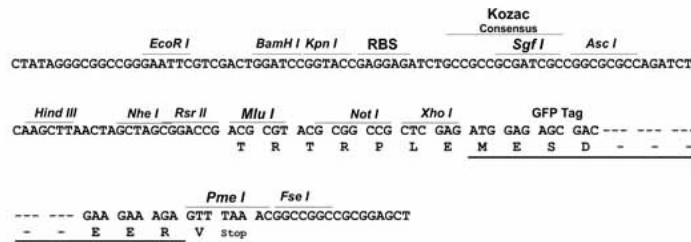
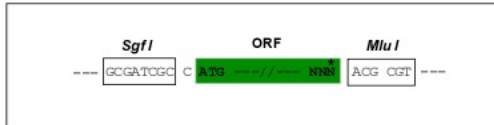
TRTRPLE - GFP Tag - V

Restriction Sites:

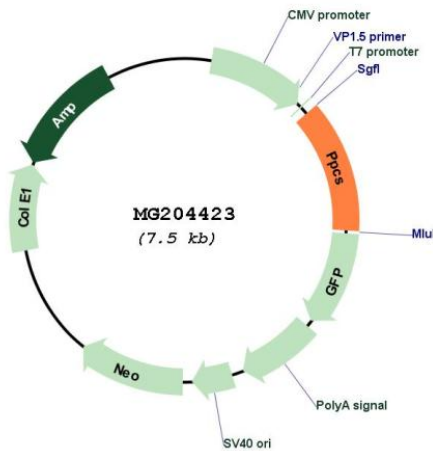
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_026494

ORF Size: 933 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:	<ol style="list-style-type: none">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_026494.3 , NP_080770.2
RefSeq Size:	1440 bp
RefSeq ORF:	936 bp
Locus ID:	106564
UniProt ID:	Q8VDG5
Cytogenetics:	4 D2.1
Gene Summary:	Catalyzes the first step in the biosynthesis of coenzyme A from vitamin B5, where cysteine is conjugated to 4'-phosphopantothenate to form 4-phosphopantothenoylcysteine. [UniProtKB/Swiss-Prot Function]