

Product datasheet for **MG204327**

PPP4c (NM_019674) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp4c (NM_019674) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ppp4c
Synonyms: 1110002D08Rik; AU016079; Ppx
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204327 representing NM_019674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGATCAGCGACCTGGACCGGCAGATCGAGCAGCTGCGGCGCTGCGAGCTGATCAAGAGAGTG
 AAGTCAAGGCCCTGTGCGCCAAGGCCAGAGAAATCTTGGTAGAAGAGAGCAACGTGCAGAGGGTGGACTC
 GCCAGTCACAGTATGCGGTGACATCCATGGACAATTCTATGACCTCAAGGAGCTGTTAGAGTAGGTGGC
 GATGTCCTGAGACCAACTACCTCTTCATGGGAGACTTTGTGGACCGTGGTTTCTACAGTGTGAAACCT
 TCCTCCTCTGCTGGCTCTTAAGTTTCGCTATCCTGACAGAATCACTTTGATCCGGGGCAATCATGAGAG
 TCGCCAGATTACCCAGGTCTATGGGTTCTACGATGAGTGCTTACGAAAATATGGTTCAGTACTGTATGG
 CGCTACTGACTGAGATCTTTGACTACCTCAGCCTGTCTGCCATCATTGATGGCAAGATCTTCTGTGTGC
 ATGGAGGTCTTTCCCTTCCATCCAGACCTTGGACCAGATCCGGACAATTGACCGAAAAGCAAGAGGTACC
 CCATGATGGACCCATGTGCGACCTCCTGTGGTCTGACCTGAAGACACAACAGGCTGGGGAGTGAGCCCC
 CGCGGGGAGGTTACCTGTTGGCAGTGACGTGGTTCGCCCAGTTCAATGCAGCCAACGACATTGATATGA
 TCTGCCGTGCCACCAATTAGTGATGGAAGGCTACAAGTGGCACTTCAATGAGACCGTGTACTGTGTG
 GTCAGCGCCTAATTACTGCTACCGCTGTGGCAATGTGGCAGCCATCTTAGAACTGGATGAGCACCTCCAG
 AAAGATTCATCATCTTCGAGGCTGCACCCCAAGAGACACGTGGCATCCCCTCCAAAAGCCAGTGGCCG
 ACTATTTCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204327 representing NM_019674
 Red=Cloning site Green=Tags(s)

MAEISDLDRQIEQLRRCELKSEVKALCAKAREILVEESNVQRVDSPTVCGDIHGQFYDLKELFRVGG
 DVPETNYLFMGDFVDRGFYSVETFLLLLALKVRYPDRTLIRGNHESRQITQVYGFYDECLRKYGSVTVW
 RYCTEIFDYLSLSAIIIDGKIFCVHGGLSPSIQTLQDQIRTIDRKQEVPHDGPMDLLWSDPEDTTGWGVSP
 RGAGYLFSDVVAQFNAANDIDMICRAHQQLVMEGYKWHFNETVLTVWSAPNYCYRCGNVAAILELDEHLQ
 KDFIIFEAAPQETRGIPSKKPVADYFL

TRTRPLE - GFP Tag - V

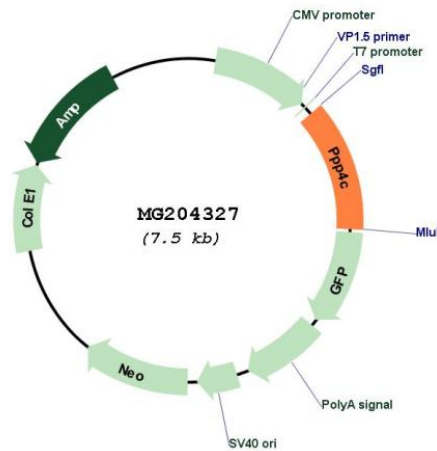
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_019674

ORF Size: 921 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_019674.2
RefSeq Size:	1332 bp
RefSeq ORF:	924 bp
Locus ID:	56420
UniProt ID:	P97470
Cytogenetics:	7 F3
Gene Summary:	<p>Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on Ser-140 (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair (By similarity). Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase. In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to chromatin (By similarity).[UniProtKB/Swiss-Prot Function]</p>