

Product datasheet for **MG204292**

PPP6c (NM_024209) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp6c (NM_024209) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ppp6c
Synonyms: 2310003C10Rik; Pp6C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204292 representing NM_024209
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCGCTGGATCTGGACAAGTATGTGGAGATAGCGCGGCAGTGCAAGTACCTCCCGAGAACGACC
TGAAGAGGCTATGTGACTATGTTTGTGATCTGCTCTTGGAAAGAGTCGAATGTTCCAGCCAGTGTCAACGCC
AGTAACAGTGTGTGGTGACATACACGGACAGTTTTATGATCTTTGTGAAGTGTTCAGAACTGGAGGTCAG
GTTCTGACACAACTACATATTTATGGGTGATTTTGTAGACAGAGGTTACTATAAGTTGGAGACCTTCA
CTTATCTTCTTGCACTAAAGGCTAAGTGGCCTGACCGTATTACACTTTTAAAGAGGAAATCATGAGAGTAG
ACAGATAACACAGGTGTATGGATTTTATGATGAGTGCCAAACCAATATGGAAATGCTAATGCCTGGAGA
TACTGTACCAAAGTTTTGATATGCTCACAGTAGCAGCTTTAATAGATGAGCAGATTTTGTGTGTTTCATG
GCGGTTTATCTCCTGATATCAAAACACTGGATCAAATTCGAACTATTGAACGAAATCAGGAAATTCCTCA
CAAAGGAGCATTTTGTGACTTGGTGTGGTCAGATCCTGAAGATGTGGACACTTGGCAATCAGTCCCAGA
GGAGCAGGTTGGCTATTTGGAGCAAAAGTCACAAATGAGTTTGTTCATATCAACAACTTAAACTCATCT
GCAGAGCACATCAGCTTGTGCACGAAGGCTATAAGTTTATGTTTACGAGAGGCTGGTCACAGTGTGGTC
TGCTCCTAACTACTGCTATCGCTGTGAAACATTGCTTCCATCATGGTCTTCAAAGATGTCAATACGAGA
GAACCAAAGTTATCCGAGCAGTTCAGATTCAGAACGTGTTATTCCTCCAGAACACGACGCCGCTATT
TCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204292 representing NM_024209
 Red=Cloning site Green=Tags(s)

MAPLCLKYVEIARQCKYLPENDLKRCLDYVCDLLLEESNVQPVSTPVTVCVDIHGQFYDLCELFRITGGQ
 VPDTNYIFMGDFVDRGYSLFTFYLLALKAKWPDRITLLRGNHESRQITQVYGFYDECQTKYGNANAWR
 YCTKVFDMLTVAALIDEQILCVHGLSPDIKTLDQIRTIERNQEIPHKGAFCDLVWSDPEDVDTWAI SPR
 GAGWLFGAKVTNEFVHINNKLICRAHQLVHEGYKFMFDEKLVTVWSAPNYCYRCGNIASIMVFKDVNTR
 EPKLFRAVPDSERVIPRRTTTPYFL

TRTRPLE - GFP Tag - V

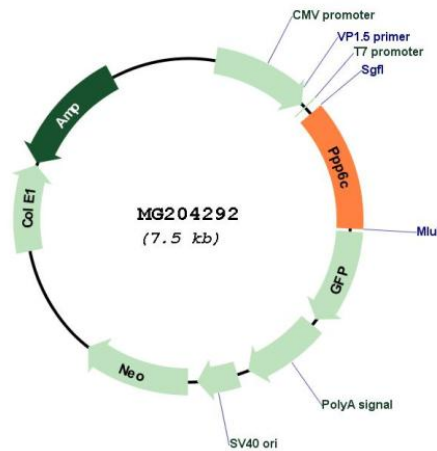
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024209

ORF Size: 915 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_024209.3
RefSeq Size:	1608 bp
RefSeq ORF:	918 bp
Locus ID:	67857
UniProt ID:	Q9CQR6
Cytogenetics:	2 B
Gene Summary:	Catalytic subunit of protein phosphatase 6 (PP6). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation. N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1. During mitosis, regulates spindle positioning. Downregulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of MAP3K7. Participates also in the innate immune defense against viruses by desphosphorylating RIG-I/DDX58, an essential step that triggers RIG-I/DDX58-mediated signaling activation.[UniProtKB/Swiss-Prot Function]