

Product datasheet for MR204292

PPP6c (NM_024209) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP6c (NM_024209) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP6c
Synonyms:	2310003C10Rik; Pp6C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204292 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCGCTGGATCTGGACAAGTATGTGGAGATAGCGCGGCAGTGCAAGTACCTCCCGAGAACGACC
TGAAGAGGCTATGTGACTATGTTTGTGATCTGCTCTTGGAAAGAGTCGAATGTTCCAGCCAGTGTCAACGCC
AGTAACAGTGTGTGGTGACATACACGGACAGTTTTATGATCTTTGTGAAGTGTTCAGAACTGGAGGTCAG
GTTCTGACACAACTACATATTTATGGGTGATTTGTAGACAGAGGTTACTATAGTTTGGAGACCTTCA
CTTATCTTCTTGACTAAAGGCTAAGTGGCCTGACCGTATTACACTTTTAAGAGGAAATCATGAGAGTAG
ACAGATAACACAGGTGTATGGATTTTATGATGAGTGCCAAACCAATATGGAAATGCTAATGCCTGGAGA
TACTGTACCAAAGTTTTGATATGCTCACAGTAGCAGCTTTAATAGATGAGCAGATTTTGTGTGTTTCATG
GCGGTTTATCTCCTGATATCAAAACACTGGATCAAATTCGAACTATTGAACGAAATCAGGAAATTCCTCA
CAAAGGAGCATTTTGTGACTTGGTGTGGTCAGATCCTGAAGATGTGGACACTTGGGCAATCAGTCCCAGA
GGAGCAGGTTGGCTATTTGGAGCAAAAGTCACAAATGAGTTTGTTCATATCAACAACTTAAACTCATCT
GCAGAGCATACAGCTTGTGCACGAAGGCTATAAGTTTATGTTTACGAGAGAAGCTGGTCACAGTGTGGTC
TGCTCCTAACTACTGCTATCGCTGTGAAACATTGCTTCCATCATGGTCTTCAAAGATGTCAATACGAGA
GAACCAAAGTTATCCGAGCAGTTCAGATTCAGAACGTGTTATTCCTCCAGAACCCAGCAGCCGATT
TCCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204292 protein sequence
 Red=Cloning site Green=Tags(s)

MAPLCLKYVEIARQCKYLPENDLKRCDYVCDLLLEESNVQPVSTPVTVCVDIHQFYDLCELFRITGGQ
 VPDNTNIFMGDFVDRGYSLTFYLLALKAKWPDRITLLRGNHESRQITQVYGFYDECQTKYGNANAWR
 YCTKVFDMLTVAALIDEQILCVHGLSPDIKTLQIRTIERNQEIPHKGAFCDLVWSDPEDVDTWAI SPR
 GAGWLFGAKVTNEFVHINNLKLCRAHQLVHEGYKFMFDEKLVTVWSAPNYCYRCGNIASIMVFKDVNTR
 EPKLFRAVPDSERVIPRRTTTPYFL

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_024209

ORF Size: 918 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_024209.3](#)

RefSeq Size: 1583 bp

RefSeq ORF: 918 bp

Locus ID: 67857

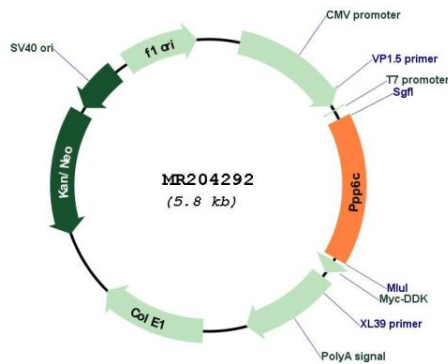
UniProt ID: [Q9CQR6](#)

Cytogenetics: 2 B

MW: 35.2 kDa

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]

Product images:



Circular map for MR204292