

Product datasheet for MR206571

Pip4k2b (NM_054051) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip4k2b (NM_054051) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pip4k2b
Synonyms:	A1848124; c11; PI5P4Kbeta; Pip5k2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206571 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCCTCAACTGCACCAGCACCACGGCGGTGGCGGTGGCGCCGCTCAGCGCCAGCAAACCAAGACCA
AGAAGAAGCATTTCTGTGCCAGAAAGTGAAGCTATTCGGGCCAGCGAGCCGATTCTCAGCGTCTCTGAT
GTGGGGGTGAACCACACGATCAATGAGCTGAGCAATGTCCTGTTCCTGTCATGCTAATGCCGGATGAC
TTCAAAGCTTACAGCAAGATCAAGGTGGACAATCATCTCTTCAATAAGGAAAACCTCCCCAGCCGCTTCA
AGTTCAAGGAGTACTGCCCATGGTGTTCGAAACCTCAGGGAGAGGTTCCGGCATCGATGACCAGGACTA
CCAGAATTCAGTGACACGACGTGCACCTATCAACAGTGACAGCCAGGGCAGGTGTGGCACTCGCTTCTCTC
ACCACCTATGACCGCGTTCCTGTCATCAAGACTGTGTCAAGTGAGGATGTGGCCGAGATGCACAACATCC
TAAAGAAATACCACAGTTCATAGTGGAATGTCACGGCAATACCCTCTTGCCACAGTTTCTGGGCATGTA
CCGCCTGACCGTGGATGGGGTGGAAACCTACATGGTGGTCACCAGGAATGTATTCAGTCATCGGCTTACT
GTGCATCGAAATACGACCTGAAGGTTCCACTGTTGCCAGAGAAGCCAGTGACAAGGAAAAGGCTAAGG
ACTTGCCAACCTTCAAAGATAATGACTTCTCAACGAAGGGCAGAAGCTGCACGTGGGAGAAGAGAGCAA
AAAGAATCTCTGAAAAAAGTGAAGCGGGACGTTGAGTTCTGGCCAGCTGAAGATCATGGATTACAGT
CTCCTGGTGGGCATCCACGACGTGGACCGGGCAGAGCAGGAGGAGATGGAGGTGGAAGAGCGGAGGAGG
AGGAGGAATGCGAGAATGATGGGGTGGTGGCAGCCTGCTCTGCTCTATGGCACGCCTCCAGACAGCCC
TGGCAACCTCCTGAGCTTCCCCGGTTCCTCGGCCAGGAGATTCGACCCCTCTGTGGAGCTCTATGCC
ATGAAAAGCCATGAAAGTCCCCCTAAGAAGGAGGTCTATTTATGGCCATCATTGACATCTCACACCTT
ATGACGCTAAGAAGAAAGCTGCACACGCCGCCAAAACGGTAAAACATGGGGCAGGGGCTGAGATCTCCAC
TGTGAACCGGAGCAGTACTCAAACGCTTCAACGAGTTCATGTCCAACATCCTGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206571 protein sequence
Red=Cloning site Green=Tags(s)

MSSNCTSTTAVAVAPLSASKTKTKKKHFVCQKVKLFRASEPILSVLMWGVNHTINELSNVPVPMPLPDD
 FKAYSKIKVDNHLFNKENLPSRFKFKKEYCPMVFRNLRERFGIDDQDYQNSVTRSAPINSDSQGRCGTRFL
 TTYDRRFVIKTVSSEDVAEMHNILKKYHQFIVECHGNTLLPQFLGMYRLTVDGVETVMVTRNVFSHRLT
 VHRKYDLKGSTVAREASDKEKAKDLPTFKDNDFLNEGQKLHVGEESKKNFLEKLRDVEFLAQLKIMDYS
 LLVGIHDVDRAEQEEMEVEERAEEEECEENDGVGGSLLCSYGTTPDSPGNLLSFPRFFGPGEFDPSVDVYA
 MKSHESAPKKEYVFMAIIDILTPYDAKKAHAHAAKTVKHGAGAEISTVNPEQYSKRFNEFMSNILT

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_054051

ORF Size: 1251 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_054051.1](#), [NP_473392.1](#)

RefSeq Size: 5068 bp

RefSeq ORF: 1251 bp

Locus ID: 108083

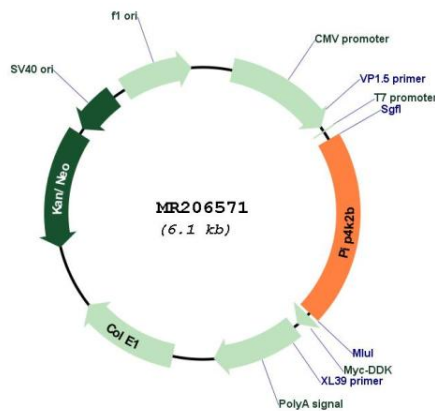
UniProt ID: [Q80XI4](#)

Cytogenetics: 11 61.07 cM

MW: 47.3 kDa

Gene Summary: Participates in the biosynthesis of phosphatidylinositol 4,5-bisphosphate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206571