

Product datasheet for **RR214780**

Pip5k1a (NM_001042621) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip5k1a (NM_001042621) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pip5k1a
Synonyms:	Pip5k1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214780 representing NM_001042621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCCGCTCCTCAGGGCCAGCGGGCGGGGTTTTACCCCTTGATTCGGGGTCCCTGCCGGTA
 CCGCAGCATCTGGAATCAAGAGAGGCACAGTATCTGAGGGACCTTATGCCTCTCTCATGCCTGTCAAGAA
 AATAGGCCATCGAAGTGTGATTCTCTGGAGAGACTACATACAAAAAGCAACTTCATCAGCCTTGAAA
 GGTGCCATCCAGTTAGGTATCACTCACACTGTGGGCAGCCTTAGCACAAACCAGAGCGGGACGTCTCA
 TGCAAGACTTCTACGTGGTGGAGAGCATCTTCTCCCACTGAAGGCAGCAACCTGACACCGGCTCACCA
 TTACAATGACTTTCGGTCAAGACCTATGCACCTGTGCCTTCCGTTACTTCAGAGAGCTATTTGGCATC
 CGGCTGACGATTACTTGTACTCCCTTTCAGTGAGCCATTGATTGAACTCTCCAATTCTGGAGCTAGCG
 GTTCCCTCTTCTACGTGCCAGTGATGAATTCATCATTAAAGACCGTCCAGCATAAAGAGGCAGAATT
 TCTGCAAAAATTGCTTCCAGGATACTACATGAATCTTAACCAAAACCCTCGTACTTTGCTGCCAAATTT
 TATGGACTGTACTGTGTGCAAGCAGGCGCAAGAACATACGAATTGTGGTGATGAACAATCTCTTGCCCTC
 GGTCAAGTCAAAATGCATATGAAATATGATCTCAAGGGTCAACTTACAAGCGGGGCTTCTCAGAAAGA
 ACGAGAGAAGACTCTCCCACTTTAAAGACTGGACTTCCCTACAAGATATCCCGGATGGCTTTTTTTTA
 GATGCTGACATGTACAGTGCTCTATGTAAGACTCTGCAGCGTACTGTCTGGTGTGCAGAGCTTCAAGA
 TTATGGACTATAGCCTGTTGATGTCCATCCACAACATGGATCATGCCAGCGAGAGCCCATGAACAGCGA
 AACACAATACTCAGTTGACACTCGCAGACCAGCCCCGAGAAGGCTCTCTATTCCACAGCTATGGAGTCC
 ATCCAGGGCGAGGCTCGCCGGGGCGGCACTGTGGAGACTGAGGACCACATGGGTGGCATCCCTGCCAGAA
 ACAAAAAGGGGAAAGGCTCCTGCTTTACATTGGCATCATTGATATTCTGCAGTCTACAGTTTGTAA
 GAAGTTGGAGCACTCTTGAAAGCCCTGGTCCATGATGGGACACGGGTGTCAGTACATCGTCCAGGCTTC
 TATGCTGAACGGTCCAGCGCTTCAAGAGGATTTCCCTTGAAGCCTTCTCCTA
 CCAAAAAGTTTCGGTCTGGCCATCTTTCTCTCGGCGATCAGGCCCCAGCGGCAACTCCTGCACTCCTTC
 CCAGCCGACAGCCTCTGGGAACACAAAGCACAAGTGACTACGAAGCGGAAGTGGAGCCAGATATACAC
 CTTGGGCGTCTGATGTCTTACCTCAGACTCCACCGTTGGAGGAGATAAGTGAGGGTTACCTGTTCTGT
 GTCCAGTTTCTACCTGCAGTTGGACAACCTTTGCAAACTAAATTTGAGTTCAACCTTGAAAAGCT
 TGATGTTGCAGAGTCAGAACTACCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214780 representing NM_001042621
 Red=Cloning site Green=Tags(s)

MASASSGPAAAGFSPLDSGVPAGTAASGIKRGTVSEGPYASLMPVKKIGHRSVDSSGETTYKKTSSALK
 GAIQLGITHTVGSLSKPERDVLMDYFYVVEIFFPSEGSNLTPAHYNDFRFKTYAPVAFRYFRELFGI
 RPDDYLYSLCSEPLIELSNSGASGLFYVSSDDEFIIKTVQHKEAEFLQKLLPGYMNLNQNPRTLLPKF
 YGLYCVQAGGKNIRIVVMNLLPRSVKMHMKYDLKGSTYKRRASQKEREKTLPTFKDLDFLQDIPDGLFL
 DADMYSALCKTLQRDCLVLQSFKIMDYSLLMSIHNMDHAQREPMNSETQYSVDTRRPAPQKALYSTAMES
 IQGEARRGGTVEDHMGGIPARNKGERLLL YIGI IDILQSYRFVKKLEHSHKALVHDGDTVSVHRPGF
 YAEERFQRFMCNTVFKKIPLKPSPTKKFRSGPSFSRRSGPSGNSCTPSQPTASGEHKAQVTTKAEVEPDIIH
 LGRPDVLPQTPPLEEISEGSPVPGPSFSPAVGQPLQILNLSSTLEKLDVAESELTH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001042621

ORF Size: 1638 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_001042621.1](#), [NP_001036086.1](#)

RefSeq Size: 3518 bp

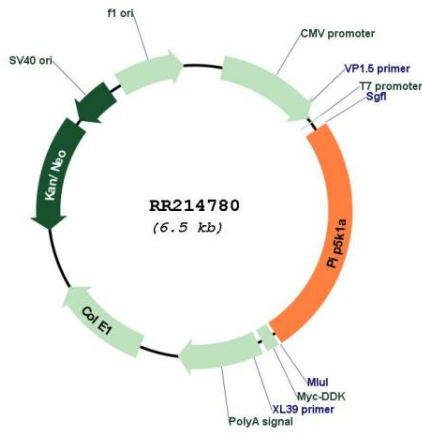
RefSeq ORF: 1641 bp

Locus ID: 365865

Cytogenetics: 2q34

MW: 60.6 kDa

Product images:



Circular map for RR214780