

Product datasheet for **RR210079**

Pi4k2a (NM_053735) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4k2a (NM_053735) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pi4k2a
Synonyms:	Pi4KII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210079 representing NM_053735
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGAGACGAGCCCGTAGTGTCCCCGAGCGGGCCCAACCCCTGAGTACACCTTCCCGTCGGTCT
 CGGGAGCTCACTTCCGCAGGTACCGGGGGCGCGGTCCGCGTAGCGGCGCCGGCTCCGGCCCGTCCCC
 GCCGTGCTCTCCGGGCCACGACCGGGAGCGGCAGCCCTGCTGGACCGGGCCCGGGGCGGGCGGCAG
 GGTGAGACCCACACGGTGGCGGCGCAGGCCAGGCCCTGGCCGCCAGGCGGCCGTGGCGGTGCACGCCG
 TTCAGACCCACCGCAGCGAAACGACTTCCCGGAGGACCCGAGTTCGAGGTGGTGGTGCAGGCCGA
 GATAGCCATCGAGTGCAGCATCTATCCCGAGCGCATCTACCAGGGCTCCAGTGAAGCTACTTCGTCAG
 GACTCTCAGGGGAGGATCATTGCTGTCTCAAACCAAGAATGAAGAGCCATACGGGAACCTTAACCCTA
 AGTGGACCAAATGGCTTCAGAAGCTGTGCTGCCCTGCTGCTTTGGCCGAGATTGCCTTGTCTCAACCA
 GGGCTATCTCTCAGAAGCAGGGGTAGCCTGGTGGACAAAAACTGGAACCAACATTGTACCCCGTACA
 AAGGTAGTATACCTGGCCAGTAAAACCTTCAACTATAGTGCCATTGACCGAGTAAAGTCCAGGGGCAAGC
 GACTTGCCTAGAGAAAGTGCCAAAAGTTGGGAGCGGTTAACCGCATTGGGCTACCACAAAGGTCGG
 GTCATTCCAGCTCTTGTGAAGGCTACAAAGATGCAGACTATTGGCTACGGCGTTTTGAAGCAGAACCT
 CTTCCCGAGAACCGAACCGACGACTACTATTGCAGTTTGAGCGGTTGGTGGTCTGGACTACATCATCC
 GCAACTGACCGAGGCAATGACAACTGGTTGATCAAATGACTATCCGATGGATAATCCCTAACTGTGCG
 GGACACAGACTGGGTGATGGTGAAGGAGCCTGTATCAAGGTGGCCGATAGACAATGGACTGGCTTTC
 CCACTGAAGCACCTGACTCCTGGAGGGCATATCCTTTTACTGGCCTGGTGGCACAGGCTAAAGTCC
 CATTCTCAGGAGATCAAAGATTTGATCTTCCAAAGATTTGAGACCCCTAACTTCGTCAGGACTTGG
 GGAGGACCTATATGAACCTTCAAGAAAGATCCTGGTTTCGACAGGGGCCAGTTCATAAGCAGATTGCT
 GTCATGAGAGGTGAGTCTAAATTTGACCCAGGCCCTAAAAGACAATAAGAGTCCCTGCACCTCGTCC
 AGATGCCACCCGTGATTGTTGAGACGGCCGTTCTCATCAGCGGTCTTCAAGTGAATCCTACACACAGAG
 CTTCCAGAGTCGGAAGCCCTCTTTTCATGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210079 representing NM_053735
 Red=Cloning site Green=Tags(s)

MDETSPLVSPERAQPPEYTFPSVSGAHFPQVPGGAVRVAAGSGPSPPCSPGHDRERQPLLDLRAGAAAQ
 GQTHTVAAQAQALAAQA AVAVHAVQTHRERNDFPEDPEFEVVRQAEIAIECSIYPERIYQSSGSYFVK
 DSQGRIIAVFKPKNEEYPGNLNPKWTKWLQKLCPCCFGRDCLVLNQGYLSEAGASLVDQKLELNIVPRT
 KVYYLASETFNYSIDRVKSRGKRLALEKVPKVGQRFNRIGLPPKVGSLFVEGYKDADYWLRRFEAEP
 LPENTNRQLLLQFERLVVLDYIIRNTDRGNDNWLKYDYPMDNPNCRD TDWVMVREPVIKVA AIDNGLAF
 PLKHPDSWRAYPFYWAWLPQAKVPFSQEIKDLILPKISDPNFVKDLEEDLYELFKKDPGDFRQGFHKQIA
 VMRGQILNLTQALKDNKSPLHLVQMPPIVETARSHQRSSSESYTQSFQSRKPFPSWW

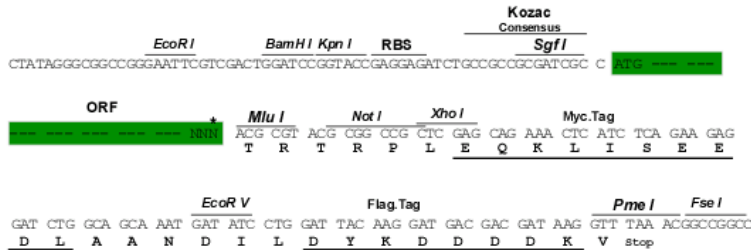
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_053735

ORF Size: 1434 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_053735.1](#), [NP_446187.1](#)
RefSeq Size: 1620 bp

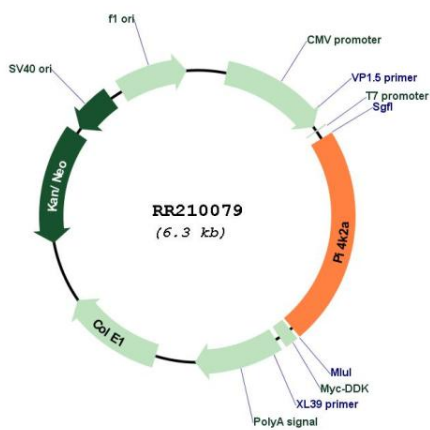
RefSeq ORF: 1437 bp

Locus ID: 114554

UniProt ID: [Q99M64](#)

Cytogenetics: 1q54
 MW: 54.3 kDa
 Gene Summary: catalyzes the conversion of PtdIns to PtdIns 4-phosphate [RGD, Feb 2006]

Product images:



Circular map for RR210079