

Product datasheet for **RR205416**

Pitpnm1 (NM_001008369) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pitpnm1 (NM_001008369) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pitpnm1
Synonyms:	Pitpnm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205416 representing NM_001008369 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTTATCAAGGAGTACCACATCTTGCTGCCATGAGCCTGGACGAGTACCAAGTGGCCAGCTCTACA
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Protein Sequence: >RR205416 representing NM_001008369
 Red=Cloning site Green=Tags(s)

MLIKEYHILLPMSLDEYQVAQLYMIQKKSREESSGEGSGVEILANRPYTDGPGGNGQYTHKVYHVHSHIP
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 FDAHEGFSDSDEVFPKEMTKWNSNDFIDAFASPTVEVGPDPAIMATKGIEDEARAPRDEGLDGTGDLG
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 VLALRKTVMFALEVAQMRPACQIYNLFHAADPCASRLEPLLAPKFQAIAPLAVPRYQKFLDGSLLLL
 ADTLQTHSSLFLEELMMVPSTPTSASGAFWKGNELGNEPAAQPAAPSTTSEVVKILDRWWGNKRIDYSL
 YCPEALTAFTVTLPHLFHASYWESADVAFILRQVIEKERPQLTECEEPSIYSPAFPREKWQRKRTQVK
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 FPVPSERALGIGVYPVRMVVRGDHTYAECCLTVVSRGTEAVVFSIDGSFTASVIMGSDPKVRAGAVDVV
 RHWQDSGYLIVYVTGRPDMQKHRVVAWLSQHNFPHGVSFCDGLTHDPLRQKAMFLQSLVQEVLELIVAG
 YGSPKDVAVYAAALGLSPSQTYIVGRAVRKLAQCQFLSDGYVAHLGQLEAGSHSHAPSGPPRAALAKSSY
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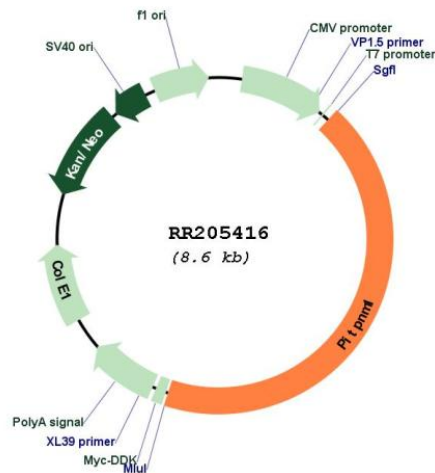
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008369

ORF Size: 3726 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_001008369.1](#), [NP_001008370.1](#)

RefSeq Size: 4191 bp

RefSeq ORF: 3729 bp

Locus ID: 361694

UniProt ID: [Q5U2N3](#)

Cytogenetics: 1q43

MW: 135 kDa

Gene Summary: Regulates RHOA activity, and plays a role in cytoskeleton remodeling. Necessary for normal completion of cytokinesis. Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus. Binds phosphatidyl inositol phosphates (in vitro). May catalyze the transfer of phosphatidylinositol and phosphatidylcholine between membranes. Necessary for maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus. Required for protein export from the endoplasmic reticulum and the Golgi. Binds calcium ions (By similarity).[UniProtKB/Swiss-Prot Function]