

Product datasheet for RN205416

Pitpnm1 (NM_001008369) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pitpnm1 (NM_001008369) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pitpnm1
Synonyms:	Pitpnm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205416 representing NM_001008369 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTATCAAGGAGTACCACATCTTGCTGCCATGAGCCTGGACGAGTACCAAGTGGCCCAGCTCTACA
TGATCCAGAAAAAGAGCCGGGAGGAATCTAGTGGTGGAGGAGTGGTGTGGAGATCCTGGCCAACCGGCC
CTACACAGATGGACCCGGAGGCAATGGGCAGTACACACAAGGTGTACCACGTGGGCTCCACATCCCA
GGCTGGTTCGGGCACTGTTGCCAAGGCTGCTCTGCAGGTAGAAGAGGAATCTTGAATGCTTACCCTG
ACACCCGGACACGGTACACCTGCCCTTTGTGGAGAAATCTCCATTGAGATAGAGACCTATTACTTGCC
TGATGGGGGGCAGCAGCCTAACGCTTTCAACTTGAGCGGGGGCGGAGAGAAGACAGAGAATCCTGGATACC
ATCGACATCGTGGGGATGCAGTGGCCCCAGGAGAGTACAAAGCAGAAGAGGACCCTCGGCTGTACCCTG
CAGTCAAGACAGGCCGAGGGCCACTGGCTGATGACTGGGCACGGACAGCAGCCAGACAGGACCTCAT
GTGTGCCTATAAGCTGTGCAAGGTTGAATTCGGCTACTGGGCGATGCAGGCCAAGATTGAGCAGTTCATC
CATGATGTAGGTCTGCGCAGGTAATGCTTCGGGCCATCGCCAGGCTGGTGTGGCAGGATGAGTGGA
TTGAACTGAGCATGGCTGACATCCGGGCACTGGAAGAGGAGACAGCAGTATGCTGGCCCAGCGTATGCC
TAAGTGAACACTGGCAGTGGGACCGGAGGCCAGACCCTGGGAAACCCAGCACTGAGACCCAGCCT
GGGACCAGAACGGCTGGCACCCCTGATGGGCTGAGGCCCTCCTGGCCCCGACGCTCACCAGATGCCA
GCTTTGGGAAGCAGTGGTCTCATCTTCCGTTCTCCTACTCATCCCAACATGGAGGTGGTGTGTCTCC
ACAGAGCTTGTCTGAGTGGCGCATGCAGAACATTGCCCGGACTCTGAGAACAGCTCCGAGGAAGAATTC
TTTGATGCCCATGAAGTTTCTCAGACAGTGTGAGGTCTTCCCAAGGAGATGACCAAGTGAAGTCCCA
ATGATTTTATTGATGCCTTTGCCTCCCGACTGAGGTAGAGGGGGTGCCAGATCCTGCAATCATGGCTAC
CAAAGGCATTGAAGATGAGGCCCGAGCTCCAGGGACTCAGAGGGCTGGATGGAACCGGGGATCTAGGG
GTTGAGGCATGCTCTGTGCATGCCCTTCTCCTCATCCTACACAGCGGCAGCATCCTGGACTCTGGCCCTG
GAGACACCAACTCCAAGCAGGCCGATGTTCAAACACTGAGCACAGCCTTTGAGGCCGTACCCCGAGTCCA
TTTCCCGAGGCCCTGGGTACGTGGCACTGCGGCTGGTGCCTGTCCACCCATCTGCGCGGCTGCCTAT
GCTCTTGTCTCAACCTGAGCCCTACAGCCATGATGGGGACAGCCTGTCCCGCTCCAGGACCACATTC



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CACTGGCTGCTCTGCCACTGCTGGCCACCTCATCTCCCCTACCCAGGGTGCCGTGGCCACTGTCATCGC
 TCGCACCAACCAGGCCTATGCAGCCTTCTGCGCTCATCGGAGGGCACAGGTTTCTGCGGGCAGGTGGT
 CTGATCGGAGATGGTGTGGTGGCATCTGGGCTTGTATGCGCTCTGCCACAGTGCCAGTGCAGGCACAG
 GGAGTCGAGGCAGCAGCCGCCGTGGGAGCATGAACAATGAGATGCTCTCCCAGAAGTTGGTCCAGTACG
 GGACCCGCTGGCAGATGGGGTGGAGTACTGGGTCGTGCTAGCCCAGAACCCTCAGCCCTACCTGCTCAG
 CGCACCTCCAGCGACATGGCTAACCCGGATCCTGATGGCTCTCAGAACAGCCTACAGGTAGCCCCACAG
 TTACCTTGGGGAGCCCGTGTGCAAGCACAGCCTCTGTCCACCTGCCAGTTCTGAGGCTCCTGACCG
 CCCACTAATGCTGCTCGACTGGACTTCAAGGTCTCAGGCTTCTTCTCTTTGGCTCCCCACTGGGCTTG
 GTGCTGGCTCTACGAAAACCGTCATGCCTGCCTTGGAGGTGGCTCAGATGCGTCCAGCCTGCGAACAGA
 TCTACAATCTCTTCCATGCCGCTGACCCCTGTGCCTCCCCTGGAACCCTGCTGGCCCCAAGTTCCA
 GGCCATCGCCCCCTGGCTGTACCTCGTTACCAGAAGTTCCCCTAGGAGATGGCTCATCCCTGCTGCTG
 GCTGACACTTTGCAGACCATTGAGCCTTCTCTGGAAGAGCTGGAGATGATGGTGCCCTCCACGCCCA
 CCTCGGCCAGTGGTGCCTTCTGGAAGGGCAATGAATTAGGCAATGAGCCGGCAGCCAGCCAGCAGCCCC
 CAGCACCACCAGTGAGGTGGTTAAGATCCTGGATCGCTGGTGGGAAACAAGCGCATCGACTATTCAGT
 TACTGCCCTGAGGCACTACCCGCTTCCACCCTCACGCTGCCACCCTTCCACGCCAGCTACTGGG
 AGTCGGCAGACGTAGTGGCTTCACTTCTGCGCCAGGTCATTGAGAAGGAGCGGCCACAGTTGACAGAATG
 TGAGGAGCCATCCATCTACAGCCCTGCCTTCCCAGGGAGAAGTGGCAGCGCAAACGCACACAGGTCAAG
 ATCCGGAACGTCACCTTCCAACCATCGGGCAAGTGACACCGTGGTATGCGAGGGCCGTCCCAGGTGCTGA
 ATGGGGCGTTCATGTACGGACCACTGGACGTGGTACACTCACTGGCGAGAAGGTGGATGTCTATGTCAT
 GACACAGCCCCTGTGGGCAAGTGGATCCACTTGGCACAGAGGTACCAACAGCTCAGGCCGTCTCACC
 TCCCAGTGCCCTCAGAACGTGCACTGGCATTGGTGTCTACCCTGTGCGCATGGTGGTCCAGGGGAGACC
 ATACCTACGCCGAGTGTGTCTGACTGTGGTGTCCCAGGCACAGAAGCTGTGGTCTTCAGCATCGACGG
 CTATTCACTGCCAGTGTCTATCATGGGCAGTGACCCCAAGGTGCGCGCTGGCAGTGGACGTGGTC
 AGGCACTGGCAGGACTCAGGCTACTTGATCGTGTATGTAAGTGGCCGGCTGACATGCAGAAGCACCGTG
 TAGTGGCTGGTGTGCGAACACAACCTCCCCATGGTGTGTCTCCTTCTGTGATGGCCTCACCCATGA
 CCCACTGCGACAGAAAGCTATGTTTCTGCAGAGCCTGGTGAAGAGGTAGAAGTGAACATCGTGGCTGGG
 TATGGGTACCCGAAAGACGTTGCAGTATATGCGGCCCTGGGACTCTCTCAAGCCAGACCTACATTGTTG
 GTCGTGACAGTGCCTAACTGCAGGCACAGTGTGAGTCTGTGATGGCTATGTGGCCATTTGGGCCA
 GCTGGAGGCAGGCTCCACTCCCATGCCCTCAGGACCTCAAGAGCTGCTCTGGCCAAGAGCAGCTAT
 GCTGTGGTGGCCCTGTGGACTTCTCCGTAAGCAGAGCCAGCTGCTTCGATCCAGAGGCCCCAGCCAGG
 TGGACCTCGAGGGCCCAGGAACACCTCCTACCACCTGGCCAGGGGCAAGACTCGAAGCATCAGCCTCAA
 GCTAGACAGTGAAGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001008369

Insert Size:

3729 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]