

## Product datasheet for MR211846

### Pitpnm1 (NM\_008851) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pitpnm1 (NM_008851) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pitpnm1
Synonyms:	DRES9; Mpt-1; Nir-2; Pitpnm; PITPnm 1; R75447; Rd9; RdgB; RdgB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211846 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTATCAAGGAGTACCACATCCTGCTGCCATGAGCCTGGACGAGTATCAAGTGGCCAGCTCTACA  
TGATCCAGAAAAAGAGCCGTGAGGAGTCTAGTGGTGGGGCAGCGCGTGGAGATCCTGGCCAACCGGCC  
CTACACAGATGGGCTGGAGGCAACGGGCAGTATACACACAAGGTGTACCACGTGGGCTCCCACATCCA  
GGCTGGTCCGGGCACTGTACCCAAGGCTGCTCTGCAGGTAGAAGAGGAATCTTGAACGCTTACCCAT  
ATACCCGGACACGGTACACCTGCCCTTTGTGGAGAAGTTCTCCATTGAGATAGAGACCTACTACTTGCC  
TGATGGGGGGCAGCAACCTAACGTCTTCAACCTGAGTGGGGCTGAGAGAAGACAGAGAATCGTGGATACC  
ATCGACATCGTGCGGGATGCAGTGGCCCCAGGAGAATACAAAGCGGAAGAGGACCCTCGGCTGTACCGCT  
CAGCCAAGACAGGCCGAGGGCCGCTGGCTGATGACTGGGCACGGACAGCGGCCAGACAGGACCTCAT  
GTGTGCCATATAAGCTGTGCAAGTTGAATTCGCTACTGGGGCATGCAGGCCAAGATTGAGCAGTTCATC  
CATGACGTAGGTCTGCGCAGGGTATGCTTCGCGCCATCGCCAGGCCTGGTGTGGCAAGATGAGTGG  
TAGAAGTGAAGTGGCTGACATCCGGGCACTGGAGGAGGAGACTGCACGCATGCTAGCGCAGCGTATGGC  
TAAGTGAACACTGGCAGTGAGGGACCAGAGGCTCAGACCCTGGGAAATCCAGCACTGAGGCCCGACCT  
GGGACCAGCACTGCTGGCACCCCTGATGGACCTGAGGCCCTCCCGCCCCGAGCCTCCCAGATGCCA  
GCTTTGGGAAGCAGTGGTCTCATCTCCGTTCTCCTACTCATCCCAACATGGAGGCGGGCTGTCTCC  
ACAGAGCTTGTCTGAGTGGCGCATGCAGAACATTGCCCGAGACTCTGAGAACAGCTCCGAGGAAGAATTC  
TTTGATGCCATGAAGTTTCTCGGACAGTGATGAGGTCTTCCCAAGGAGATGACCAAGTGAATTC  
ATGATTTTATCGATGCCTTTGCCCTCCCAACCGAGGTGGAGGGGTACCAGATCTACAGTCATGGCTAC  
CAAAGGCATTGAAGATGGGGCCGAGCTCCAGGGACTCAGAGGGCTAGATGGAGCGGGGATCTAGTG  
GTCGAGGCGTGTCTGTGCATGCCCTTCTCCTCATCCTGCACAGCGGCAGCATCCTGGACTCTGGCCCTG  
GAGACCAACTCAAGCAGGCCGAGTCAAACGCTGAGCACAGCCTTTGAGGCCGTACCCGAGTCCA  
TTTCCCAGGCCCTGGTACGTCGACTGCGGCTGGTCCCTGTCCACCCATTTGCGCGCTGCCTAT



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GCTCTTGTCTCCAACCTGAGCCCTACAGCCATGATGGGGATAGCCTGTCCCGCTCCAAGACCACATTC  
CGCTGGCTGCCCTGCCGCTCCTGGCCACCTCATCTCTCGCTACCAGGGTGCCGTGGCCACTGTCATCGC  
TCGCACCAACCAGGCCTATGCAGCCTTCTGCGCTCATCGGAGGGCACAGGTTTCTGCGGGCAGGTGGT  
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CTGGTGTGGCTCTTCGAAAACCGTGATGCCCGCTTGGAGGTGGCTCAGCTGCGTCCAGCCTGCGAGC  
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TGAATGGGCGCTTCAATGTATGGACATTGGATGTGGTACGCTCACTGGAGAGAAGTGGATGTCTACGT  
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ACCTTCCCAGTGCCTCAGAACGTGACTGGGCATTGGTGTCTACCCTGTGCGCATGGTGGTCCAGGGGAG  
ACCACACCTATGCCGAGTGTCTGACTGTGGTGTCCGAGGCACAGAAGCTGTGGTCTTCCAGCATCGA  
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GTCAGGCACTGGCAGGACTCTGGCTACTTGATTGTGTATGTAAGTGGCCGGCCTGACATGCAAAAAGCACC  
GTGTAGTGGCCTGGCTGTCGCAACACAACCTCCCCATGGTGTGTCTCCTTCTGTGATGGCCTCACCCA  
CGACCCGCTGCGGCAGAAAGCCATGTTTCTGCAGAGCCTGGTGAAGAGGTAGAAGTGAACATCGTGGCT  
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TTGGCCGTGCTGTGCGCAAACGTCAGGCACAGTGTGAGTCTCTGTCAGATGGCTATGTGGCCCACTTGG  
CCAGCTGGAGGCAGGCTCCCACTCCATGCTCCCTCAGGACCTCCGAGAGCCGCTCTGGCCAAGAGTAGC  
TATGCTGTGGCTGCCCTGTGGACTTCTCCGGAAGCAGAGCCAGCTGCTTCGATCCAGAGGCCCTAGCC  
AGGTGGACCGTGAGGGTCCAGGAACACCTCCACCACCCTGGCCAGGGGCAAGACTCGCAGCATCAGCCT  
CAAGTTGGACAGTGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211846 protein sequence  
 Red=Cloning site Green=Tags(s)

MLIKEYHILLPMSLDEYQVAQLYMIQKKSREESSGEGSGVEILANRPYTDGPGGNGQYTHKVYHVHSHIP  
 GWFRRLLPKAALQVEEESWNAYPYTRTRYTCPFVEKFSIEIETYLPDGGQQPNVFNLSGAERRQRIVDT  
 IDIVRDAVAPGEYKAEEDPRLYRSKTRGRPLADDWARTAAQTGPLMCAYKLCCKVEFRYWGMQAKIEQFI  
 HDVGLRRVMLRAHRQAWCWQDEWIELSMADIRALEEETARMLAQRMACKNTGSEGPEAQTGKSSSTEARP  
 GTSTAGTPDGPEAPPDASPDASFQKQSSSSSSSYSSQHGGGVSPQSLSEWRMQNIARSENSEEEF  
 FDAHEGFSDSDEVFPKEMTKWNSNDFIDAFASPTVEGVPDPTVMATKGIEDGARAPRDEGLDGAGDLV  
 VEACSVHALFLILHSGSILDSGPGDTSKQADVQLSTAFEAVTRVHFPEALGHVALRLVPCPPICAAAAY  
 ALVSNLSPYSHDGDLSRSQDHIPLAALPLLATSSRYQGAVATVIARTNQAYAAFLRSSEGTGFCGQVV  
 LIGDGVGGILGFDALCHSASAGPGSRGSSRRGSMNNEMLSPEVGPVRDPLADGVEVLGRASPEPSALPAQ  
 RTFSDMANPDPGSONSLQVASTATSSGEPRASTASCPPASSEAPDGPTNAARLDFKVSFFFGLGSPGL  
 LVLALRKTVMPALEVAQLRPAEQIYNLFHAADPCASRLEPLLAPKFQAIAPLAVPRYQKFLGDSLL  
 LADTLQTHSSLFLEEEMMVPSTPTSASGAFWKGSELGNEPASQTAAPSTTSEVVKILDRWWGNKRIDYS  
 LYCPEALTAFTVTLPHLFHASYWESADVAFILRQVIEKERPQLTECEPSIYSPAFPREKWQRKRTQV  
 KIRNVTSNHRASDTVCEGRPQVLNGRFMYGPLDVVTLTGEKVDVYVMTQPLSGKWIHFTEVTNSSGRL  
 TFPVPSERALGIGVYPVRMVVRGDHTYAECLTVVSRGTEAVVFSIDGSFTASVSI MGSDPKVRAGAVDV  
 VRHWQDSGYLIVYVTRPDMQKHRVVAWL SQHNFPHGVVFC DGLTHDPLRQKAMFLQSLVQEVELNIVA  
 GYGSPKDVAVYAALGLSPSQTYIVGRAVRKLQAQCQLSDGYVAHLGQLEAGSHSHAPSGPPRAALAKSS  
 YAVAAPVDFLRKQSLLRSRGPQVDREGPGTPPTTLARGKTRISLKLDDSEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



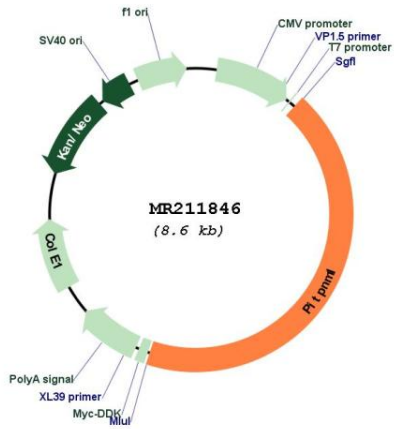
\* The last codon before the Stop codon of the ORF

ACCN: NM\_008851

ORF Size: 3732 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_008851.4</a>
<b>RefSeq Size:</b>	4533 bp
<b>RefSeq ORF:</b>	3732 bp
<b>Locus ID:</b>	18739
<b>UniProt ID:</b>	<a href="#">O35954</a>
<b>Cytogenetics:</b>	19 3.81 cM
<b>MW:</b>	134.9 kDa
<b>Gene Summary:</b>	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 (By similarity). 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]

Product images:



Circular map for MR211846