

Product datasheet for MR220320

Pitpnm1 (NM_001136078) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pitpnm1 (NM_001136078) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pitpnm1
Synonyms:	DRES9; mpt-1; Pitpnm; R75447; Rd9; RdgB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220320 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTATCAAGGAGTACCACATCCTGCTGCCATGAGCCTGGACGAGTATCAAGTGGCCAGCTCTACA
TGATCCAGAAAAAGAGCCGTGAGGAGTCTAGTGGTGGGGCAGCGCGTGGAGATCCTGGCCAACCGGCC
CTACACAGATGGGCTGGAGGCAACGGGCAGTATACACACAAGGTGTACCACGTGGGCTCCACATCCCA
GGCTGGTTCGGGCACTGTTACCAAGGCTGCTCTGCAGGTAGAAGAGGAATCTTGAACGCTTACCCAT
ATACCCGGACACGGTACACCTGCCCTTTGTGGAGAAGTTCTCCATTGAGATAGAGACCTACTACTTGCC
TGATGGGGGGCAGCAACCTAACGTCTTCAACCTGAGTGGGGCTGAGAGAAGACAGAGAATCGTGGATACC
ATCGACATCGTGCGGGATGCAAGTGGCCCAAGGAGAATACAAAGCGGAAGAGGACCCTCGGCTGTACCGCT
CAGCCAAGACAGGCCGAGGGCCGCTGGCTGATGACTGGGCACGGACAGCGGCCAGACAGGACCTCTCAT
GTGTGCCATATAAGCTGTGCAAGTTGAATTCGCTACTGGGGCATGCAGGCCAAGATTGAGCAGTTCATC
CATGACGTAGGTCTGCGCAGGGTATGCTTCGCGCCATCGCCAGGCCTGGTGTGGCAAGATGAGTGGAA
TAGAAGTGAAGTGGCTGACATCCGGGCACTGGAGGAGGAGACTGCACGCATGCTAGCGCAGCGTATGGC
TAAGTGAACACTGGCAGTGGGACCAGAGGCTCAGACCCTGGGAAATCCAGCACTGAGGCCCGACCT
GGGACCAGCACTGCTGGCACCCCTGATGGACCTGAGGCCCTCCCGCCCGAGCCTCCCAAGATGCCA
GCTTTGGGAAGCAGTGGTCTCATCTCCGTTCTCCTACTCATCCCAACATGGAGGCGGCGTGTCTCC
ACAGAGCTTGTCTGAGTGGCGCATGCAGAACATTGCCCGAGACTCTGAGAACAGCTCCGAGGAAGAATTC
TTTGATGCCATGAAGTTTCTCGGACAGTGTAGGTTCTCCCAAGGAGATGACCAAGTGAATTC
ATGATTTTATCGATGCCTTTGCCCTCCCAACCGAGGTGGAGGGGTACCAGATCTACAGTCATGGCTAC
CAAAGGCATTGAAGATGGGGCCGAGCTCCAGGGACTCAGAGGGCTAGATGGAGCGGGGATCTAGTG
GTCGAGGCGTGTCTGTGCATGCCCTTCTCTCATCTGCACAGCGGCAGCATCTGGACTCTGGCCCTG
GAGACCAACTCAAGCAGGCCGAGTCAAACGCTGAGCACAGCCTTTGAGGCCGTACCCGAGTCCA
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GCTCTTGTCTCCAACCTGAGCCCTACAGCCATGATGGGGATAGCCTGTCCCGCTCCAAGACCACATTC
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 TCGCACCAACCAGGCCTATGCAGCCTTCTGCGCTCATCGGAGGGCACAGGTTTCTGCGGGCAGGTGGT
 CTGATCGGAGATGGTGTGGTGGCATCCTGGGCTTGTATGCGCTCTGCCACAGTGCCAGTGCAGGCCAG
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 GGACCCGCTGGCAGATGGGGTGGAGTACTGGTCTGCTAGCCAGAACCCCTCAGCCCTACCTGCTCAG
 CGTACCTTCAGTGACATGGCCAATCCTGATCCTGATGGCTCTCAGAACAGCCCTCAGGTAGCCTCCACAG
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 AAGATCCGGAACGTCACCTTCAAACACCAGCGAGTGACACCGTGGTATGTGAGGGCCGTCGCCAGGTG
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 TTGGCCGTGCTGTGCGCAAACCTGCAGGCACAGTGTGAGTCTCTGTGATGGCTATGTGGCCCACTTGG
 CCAGCTGGAGGCAGGCTCCACTCCATGCTCCCTCAGGACCTCCGAGAGCCGCTCTGGCCAAGAGTAGC
 TATGCTGTGGCTGCCCTGTGGACTTCTCCGGAAGCAGAGCCAGCTGCTTCGATCCAGAGGCCCTAGCC
 AGGTGGACCGTGAGGGTCCAGGAACACCTCCACCACCCTGGCCAGGGGCAAGACTCGCAGCATCAGCCT
 CAAGTTGGACAGTGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220320 protein sequence
 Red=Cloning site Green=Tags(s)

MLIKEYHILLPMSLDEYQVAQLYMIQKKSREESSGEGSGVEILANRPYTDGPGNGQYTHKVVYHVGSHIP
 GWFRRLLPKAALQVEEESWNAYPYTRTRYTCPFVEKFSIEIETYLPDGGQPNVFNLSGAERRQRIVDT
 IDIVRDAVAPGEYKAEEDPRLYRSKTRGRPLADDWARTAAQTGPLMCAYKLCCKVEFRYWGMQAKIEQFI
 HDVGLRRVMLRAHRQAWCWQDEWIELSMADIRALEEETARMLAQRMACKNTGSEGPEAQTGKSSTEARP
 GTSTAGTPDGPEAPPDASPDASFQKQWSSSSSYSSQHGGGVSPQSLSEWRMQNIARSENSEEEF
 FDAHEGFSDSDEVFPKEMTKWNSNDFIDAFASPTVEGVPDPTVMATKGIEDGARAPRDEGLDGAGDLV
 VEACSVHALFLILHSGSILDSGPGDTSKQADVQLSTAFEAVTRVHFPEALGHVALRRLVPCPPICAAAAY
 ALVSNLSPYSHDGDLSRSQDHIPLAALPLLATSSRYQGAVATVIARTNQAYAAFLRSSEGTGFCGQVV
 LIGDGVGGILGFDALCHSASAGPGSRGSSRRGSMNNEMLSPEVGPVRDPLADGVEVLGRASPEPSALPAQ
 RTFSDMANPDPGSONSLQVASTATSSGEPRASTASCPPASSEAPDGPTNAARLDFKVSFFFGLGSPGL
 LVLALRKTVMPALEVAQLRPAEQIYNLFHAADPCASRLEPLLAPKFQAIAPLAVPRYQKFLGDSLL
 LADTLQTHSSLFLEEEMMVPSTPTSASGAFWKGSELGNEPASQTAAPSTTSEVVKILDRWWGNKRIDYS
 LYCPEALTAFPTVTLPHLFHASYWESADVAFILRQVIEKERPQLTECEPSIYSPAFPREKWQRKRTQV
 KIRNVTSNHRASDTVCEGRPQVLNRFMYGPLDVVTLTGEKVDVYVMTQPLSGKWIHFTEVTNSSGRL
 TFPVPSERALGIGVYPVRMVVRGDHTYAECLTVVSRGTEAVVFSIDGSFTASVSI MGSDPKVRAGAVDV
 VRHWQDSGYLIVYVTRPDMQKHRVVAWLSQHNFPHGVSFCDGLTHDPLRQKAMFLQSLVQEEVLNIVA
 GYGSPKDVAVYAALGLSPSQTYIVGRAVRKLQAQCQLSDGYVAHLGQLEAGSHSHAPSGPPRAALAKSS
 YAVAAPVDFLRKQSQLLSRGPQVDREGPGTPPTTLARGKTRISLKLDDSEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



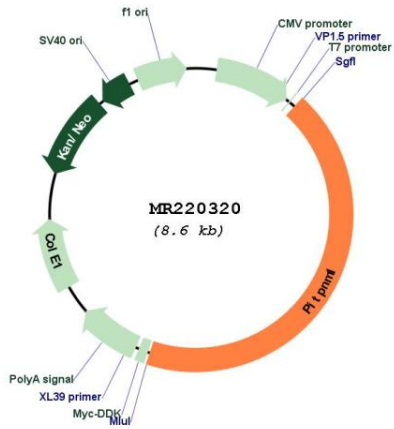
* The last codon before the Stop codon of the ORF

ACCN: NM_001136078

ORF Size: 3732 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:	<ol style="list-style-type: none">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_001136078.1 , NP_001129550.1
RefSeq Size:	4106 bp
RefSeq ORF:	3732 bp
Locus ID:	18739
Cytogenetics:	19 3.81 cM
MW:	134.9 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 (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 MR220320