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Product datasheet for RC206446

PAMCI (RASSF9) (NM_005447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAMCI (RASSF9) (NM_005447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAMCI
Synonyms:	P-CIP1; PAMCI; PCIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC206446 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCCTTTGGAAGAAACTTGCTAAAGACTCGGCATAAAAACAGATCTCCAACTAAAGACATGGATT
CAGAAGAGAAGGAAATTGTGGTTTGGGTTTGCCAAGAAGAGAAGCTTGTCTGTGGGCTGACTAAACGCAC
CACCTCTGCTGATGTCATCCAGGCTTTGCTTGAGGAACATGAGGCTACGTTTGGAGAGAAACGATTTCTT
CTGGGGAAGCCCAGTGATTACTGCATCATAGAGAAGTGGAGAGGCTCCGAAAGGGTTCTTCCTCCACTAA
CTAGAATCCTGAAGCTTTGGAAAGCGTGGGGAGATGAGCAGCCCAATATGCAATTTGTTTTGGTTAAAGC
AGATGCTTTTCTTCCAGTTCCTTTGTGGCGGACAGCTGAAGCCAAATTAGTGCAAAACACAGAAAAATTG
TGGGAGCTCAGCCCAGCAAACTACATGAAGACTTTACCACCAGATAAACAAAAAAGAATAGTCAGGAAAA
CTTTCCGGAAACTGGCTAAAATTAAGCAGGACACAGTTTCTCATGATCGAGATAATATGGAGACATTAGT
TCATCTGATCATTTCCCAGGACCATACTATTCATCAGCAAGTCAAGAGAATGAAAGAGCTGGATCTGGAA
ATTGAAAAGTGTGAAGCTAAGTTCCATCTTGATCGAGTAGAAAATGATGGAGAAAACTATGTTCAGGATG
CATATTTAATGCCCAGTTTCAGTGAAGTTGAGCAAAATCTAGACTTGCAGTATGAGGAAAACCAGACTCT
GGAGGACCTGAGCGAAAGTGATGGAATTGAACAGCTGGAAGAACGACTGAAATATTACCGAATACTCATT
GATAAGCTCTCTGCTGAAATAGAAAAAGAGGTAAAAAGTGTTTGCATTGATATAAATGAAGATGCGGAAG
GGGAAGCTGCAAGTGAACTGGAAAGCTCTAATTTAGAGAGTGTTAAGTGTGATTTGGAGAAAAGCATGAA
AGCTGGTTTGAAAATTCACTCTCATTTGAGTGGCATCCAGAAAGAGATTAAATACAGTGACTCATTGCTT
CAGATGAAAGCAAAAGAATATGAACTCCTGGCCAAGGAATTCAATTCACTTCACATTAGCAACAAAGATG
GGTGCCAGTTAAAGGAAAACAGAGCGAAGGAATCTGAGGTTCCCAGTAGCAATGGGGAGATTCCTCCCTT
TACTCAAAGAGTATTTAGCAATTACACAAATGACACAGACTCGGACACTGGTATCAGTTCTAACCACAGT
CAGGACTCCGAAACAACAGTAGGAGATGTGGTGCTGTTGTCAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206446 protein sequence
Red=Cloning site Green=Tags(s)

MAPFGRNLLKTRHKNRSPTKDMDSEEKEIVVWVCQEEKLVCGLTKRTTSADVIQALLEEHEATFGEKRFL
LGKPSDYCIIEKWRGSERVLPPLTRILKLWKAWGDEQPNMQFVLVKADAFLPVPLWRTAEAKLVQNTEKL
WELSPANYMKTLPPDKQKRIVRKTFRKLAKIKQDTVSHDRDNMETLVHLIISQDHTIHQQVKRMKELDLE
IEKCEAKFHLDRVENDGENYVQDAYLMPSFSEVEQNLDLQYEENQTLEDLSESDGIEQLEERLKYYRILI
DKLSAEIEKEVKSVCIDINEDAEGEAASELESSNLESVKCDLEKSMKAGLKIHSHLSGIQKEIKYSDSLL
QMKAKEYELLAKEFNSLHISNKDGCQLKENRAKESEVPSSNGEIPPFTQRVFSNYTNDTDSDTGISSNHS
QDSETTVGDVVLLST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6520_b03.zip

Restriction Sites: SgfI-MluI

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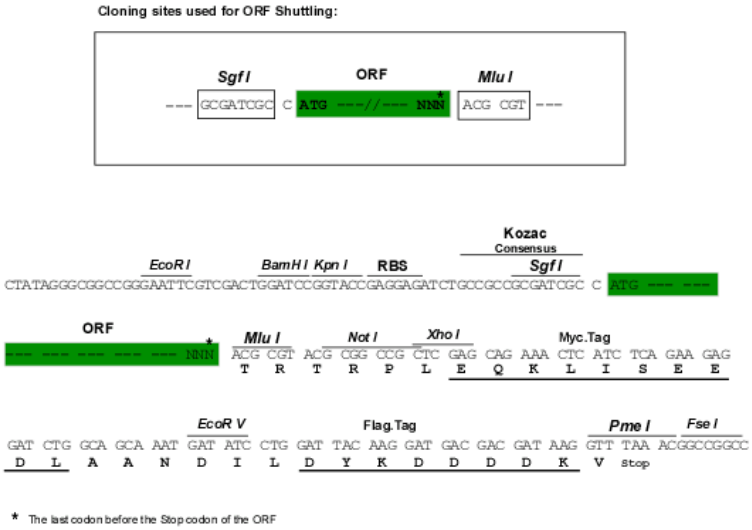
Cloning Scheme:



ACCN: NM_005447

ORF Size: 1305 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_005447.4

RefSeq Size: 1796 bp

RefSeq ORF: 1308 bp

Locus ID: 9182

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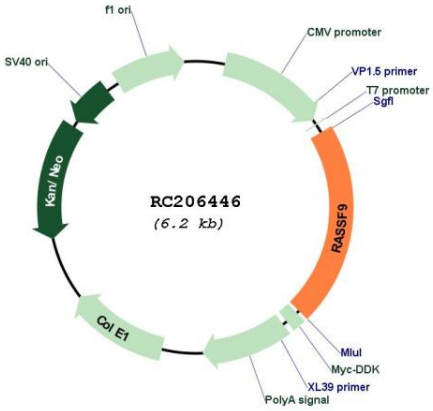
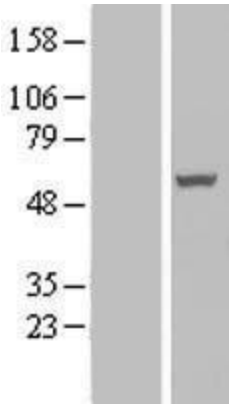
UniProt ID:	O75901
Cytogenetics:	12q21.31
MW:	50 kDa
Gene Summary:	The protein encoded by this gene localizes to perinuclear endosomes. This protein associates with peptidylglycine alpha-amidating monooxygenase, and may be involved with the trafficking of this enzyme through secretory or endosomal pathways. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206446



Western blot validation of overexpression lysate (Cat# [LY417288]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206446 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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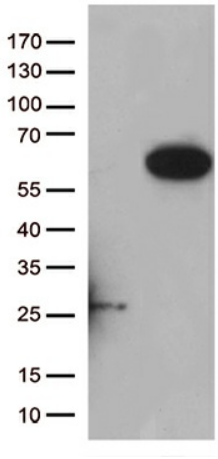

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RASSF9 (Cat# RC206446, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RASSF9 (Cat# [TA809393])(1:500). Positive lysates [LY417288] (100ug) and [LC417288] (20ug) can be purchased separately from OriGene.

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