

Product datasheet for **RC230597**

PAM (NM_001177306) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAM (NM_001177306) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAM
Synonyms:	PAL; PHM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC230597 representing NM_001177306
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTGGCCGCTCCCTAGCCTGCTAGTTCTCCTTGTGTTTTTCCAAGCAGCTGTTTGGCTTCCGAAGCC
 CACTTTCTGTCTTTAAGAGGTTTAAAGAACTACCAGACCATTTTCCAATGAATGTCTTGGTACCACCAG
 ACCCGTAGTTCCTATTGATTCATCAGATTTTGCATTGGATATTCGCATGCCTGGGGTTACACCTAAACAG
 TCCGATACATACTTCTGCATGTCTATGCGAATACCAGTGGATGAGGAAGCCTTCGTGATTGACTTCAAGC
 CTCGAGCCAGCATGGATACTGTCCATCACATGTTACTTTTTGGATGCAATATGCCTTCATCCACTGGAAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230597 representing NM_001177306
 Red=Cloning site Green=Tags(s)

MAGRVPSSLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSNECLGTTTRPVVPIIDSSDFALDIRMPGVTPKQ
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 PPTRLPGKVGFRVGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTRLPQPLIAGMYLMMSVDVIP
 AGEKVVNSDISCHYKNYPMHVFAVRVHTHHLGKVVSGYVRNGQWTLIGRQSPQLPQAFYVPVGHVVDVSF
 GDLLAARCVFTGEGRTEATHIGGTSSDEMCLYIMYYMEAKHAVSFMTCTQNVAPDMFRTIPPEANIPIP
 VKSDMVMMEHHKETEYKDKIPLLQQPKREEEVLDQGDYFSLLSKLLGEREDVVHVHKYNPTEKAESES
 DLVAEIANVVQKKDLGRSDAREGAEHERGNAILVRDRIHKFHRLVSTLRPPESRVFSLQQPPPGEGTWEP
 EHTGDFHMEEALDWPGVYLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQQIGLPIEEDTIL
 VIDPNNAAVLQSSGKNLFYLPGLSIDKDGNYWVDVALHQVFKLDPNNKEGPVILGRSMQPGSDQNHF
 CQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFITQWGEESGSSPLPGQFTVPHSLALVPLLGQLCV
 ADRENGRIQCFTDTKEFVREIKHSSFGRNVFAISYIPGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIID
 IFKPVKHFDMPHDIVASEDGTVYIGDAHTNTVWKFTLTKLEHRSVKKAGIEVQEIKEAEAVVETKMEN
 KPTSSSELQKMQEKKQLIKEPGSGVPVLLITLLVIPVVLLAIAIFIRWKKSRAGDSEHKLETSSGRVL
 GRFRGKSGGLNLGNFFASRKGYSRKGFDRLSTEGSDQEKEDDGSEEEYSAPLPALAPSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

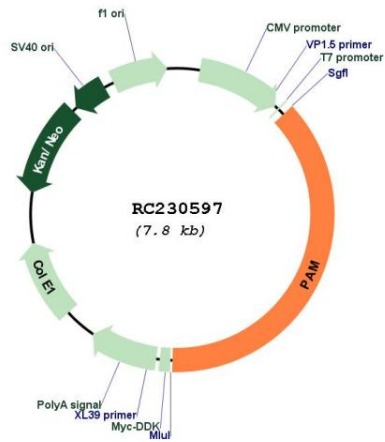


ACCN: NM_001177306

ORF Size: 2919 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_001177306.1 , NP_001170777.1
RefSeq ORF:	2922 bp
Locus ID:	5066
UniProt ID:	P19021
Cytogenetics:	5q21.1
Protein Families:	Druggable Genome, Transmembrane
MW:	108.8 kDa
Gene Summary:	This gene encodes a multifunctional protein. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme includes two domains with distinct catalytic activities, a peptidylglycine alpha-hydroxylating monooxygenase (PHM) domain and a peptidyl-alpha-hydroxyglycine alpha-amidating lyase (PAL) domain. These catalytic domains work sequentially to catalyze the conversion of neuroendocrine peptides to active alpha-amidated products. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC230597