

## Product datasheet for **RC213661**

### **PAM (NM\_138766) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | PAM (NM_138766) 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:

>RC213661 representing NM\_138766  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGCCGCTCCCTAGCCTGCTAGTTCTCCTTGTTTTTCCAAGCAGCTGTTTGGCTTCCGAAGCC  
 CACTTTCTGTCTTTAAGAGGTTTAAAGAACTACCAGACCATTTTCCAATGAATGTCTTGGTACCACCAG  
 ACCCGTAGTTCCTATTGATTCATCAGATTTTGCATTGGATATTCGCATGCCTGGGGTTACACCTAAACAG  
 TCCGATACATACTTCTGCATGTCTATGCGAATACCAGTGGATGAGGAAGCCTTCGTGATTGACTTCAAGC  
 CTCGAGCCAGCATGGATACTGTCCATCACATGTTACTTTTTGGATGCAATATGCCTTCATCCACTGGAAG  
 TTAGTGGTTTTGTGATGAAGGAACCTGTACAGATAAAGCCAATATTCTGTATGCCTGGGCGAGAAATGCT  
 CCCCTACCCGGCTCCCAAAGGTGTGGATTAGAGTTGGAGGAGAGACTGGAAGTAAATACTTTGTAC  
 TACAGGTACACTATGGGGATATTAGTGTCTTAGAGATAATAACAAGGACTGTTCTGGTGTGCCTTACA  
 CCTCACACGTCTGCCACAGCCTTAATTGCTGGCATGTACCTTATGATGTCTGTTGACACTGTTATCCCA  
 GCAGGAGAAAAAGTGGTGAATTCGACATTTTCATGCCATTATAAAAAATTCCAATGCATGTCTTTGCCCT  
 ATAGAGTTCACACTCACCATTTAGGTAAGGTAGTAAGTGGATACAGAGTAAGAAATGGACAGTGGACACT  
 GATTGGACGGCAGAGCCCTCAGCTGCCACAGGCTTCTACCCTGTGGGGCATCCAGTTGATGTAAGTTTT  
 GGTGACCTACTGGCTGCAAGATGTGATTCAGTGGTGAAGGAAGGACAGAAGCCACACACATTGGTGGCA  
 CGTCTAGTGATGAAATGTGCACTTATACATTATGATTACATGGAAGCCAAGCATGCAGTTTCTTTTCAT  
 GACCTGTACCCAGAATGTAGTCCAGATATGTTGAGAACCATACCACCAGAGGCCAACATCCAATTCCC  
 GTGAAGTCTGATATGTTATGATGCATGAACATCATAAAGAAACAGAATATAAAGATAAGATTCCCTTTAC  
 TACAGCAGCCAAAACGAGAAGAAGAAGTGTAGACCAGGGTATTCTATTACTACTTTTCCAAGT  
 GCTAGGAGAAAAGGAAGATGTTGTTTCATGTGCACAAATAAATCCTACAGAAAAGGCAGAATCAGAGTCA  
 GACCTGGTAGCTGAGATTGCAAATGTAGTCCAAAAAAGGATCTTGGTGCATCTGATGCCAGAGAGGGTG  
 CAGAACATGAGAGGGGTAATGCTATTCTTGTGAGAGACAGAATTCACAAATCCACAGACTAGTATCTAC  
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 GAACACACAGGAGATTTCCACATGGAAGAGGCACTGGATTGGCCTGGAGTATACTTGTACCAGGCCAGG  
 TTTCTGGGGTGGCTCTAGACCCTAAGAATAACCTGGTGTATTTCCACAGAGGTGACCATGTCTGGGATGG  
 AAACCTGTTTACAGCAAGTTTGTACCAGCAAATAGGACTCGGACCAATTGAAGAAGACACTATTCTT  
 GTCATAGATCCAATAATGCTGCAGTACTCCAGTCCAGTGGAAAAATCTGTTTTACTTGCCACATGGCT  
 TGAGTATAGATAAAGATGGGAATTATTGGGTACAGACGTGGCTCTCCATCAGGTGTTCAAACCTGGATCC  
 AAACAATAAAGAAGGCCCTGTATTAATCCTGGGAAGGAGCATGCAACCAGGCAGTGACCAGAATCACTTC  
 TGTCAACCCTACTGATGTGGCTGTGGATCCAGGCACTGGAGCCATTTATGTATCAGATGGTTACTGCAACA  
 GCAGGATTGTGCAGTTTTACCAAGTGGAAAGTTCATCACACAGTGGGGAGAAGAGTCTTCAGGGAGCAG  
 TCCTCTGCCAGGCCAGTTCAGTGTCTCACAGCTTGGCTCTTGTGCCTCTTTGGGCCAATTATGTGTG  
 GCAGACCCGGAAAAATGGTCGGATCCAGTGTAAAACTGACACCAAAGAATTTGTGAGAGAGATTAAGC  
 ATTCATCATTTGGAAGAAATGATTTGCAATTCATATACCAGGCTTGCTCTTTGCAGTGAATGGGAA  
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 ATCTTCAAGCCAGTGCAGCAAGCACTTTGATATGCCTCATGATATTGTTGCATCTGAAGATGGGACTGTGT  
 ACATTGGAGATGCTCATACCAACACCGTGTGGAAGTTCACCTTGACTGAGAAAATTGGAACATCGATCAGT  
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 GTACTGGGAAGATTTAGAGGAAAGGGAAGTGGAGGCTTAAACCTTGGTAATTTCTTTGCAAGCCGTAAGG  
 GCTACAGTCGAAAAGGGTTTACCAGCTTACACTGAGGGCAGTGACCAAGAGAAAAGAGGATGATGGAAG  
 TGAATCAGAAGAGGAGTATTAGCACCTCTGCCTGCGCTGCACCTTCTCTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213661 representing NM\_138766  
 Red=Cloning site Green=Tags(s)

MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSNECLGTTTRPVVPIIDSSDFALDIRMPGVTPKQ  
 SDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSSTGSYWFCEGTCTDKANILYAWARNA  
 PPTRLPGKGVGRVGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTRLPQPLIAGMYLMMSVDTVIP  
 AGEKVVNSDISCHYKNYPMHVFA YRVHTHHLGKVVSGYRVRNGQWTLIGRQSPQLPQAFYVPVGHVVDVSF  
 GDLLAARCVFTGEGRTEATHIGGTSSDEMCLYIMYYEAKHAVSFMTCTQNVAPDMFRTIPPEANIPIP  
 VKSDMVMMEHHKETEYKDKIPLLQQPKREEEVLDQGDYFSLLSKLLGEREDVVHVHKYNPTEKAES  
 DLVAEIANVVQKKDLGRSDAREGAEHERGNAILVRDRIHKFHRLVSTLRPPESRVFSLQQPPPGEETWEP  
 EHTGDFHMEEALDWPGVYLLPGQVSGVALDPKNNLVIFHRGDHVDGNSFDSKFVYQQIGLGP I EEDTIL  
 VIDPNNAAVLQSSGKNLFYLPGLSIDKDGNYWVDVALHQVFKLDPNNKEGPVILGRSMQPGSDQNH  
 CQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFITQWGEESGSSPLPGQFTVPHSLALVPLLGQLCV  
 ADRENGRIQCFTDTEKFVREIKHSSFRNVFAISYIPGLLFAVNGKPHFGDQEPVQGFVMNFNGEIID  
 IFKPVKHFDMPHDIVASEDGTYYIGDAHTNTVWKFTL TEKLEHRSVKKAGIEVQEIKDSEHKLETSSGR  
 VLGRFRGKGGGLNLGNFFASRKGYSRKGFDRLSTEGSDQEKEDDGESEEEYSAPLPALAPSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

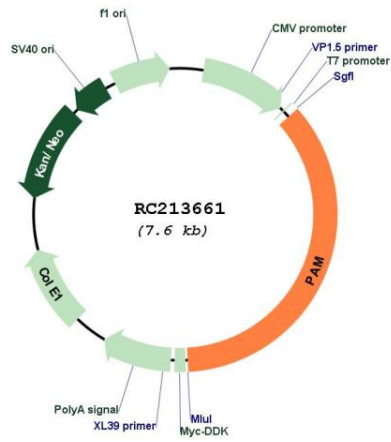
Cloning Scheme:



ACCN: NM\_138766

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 2715 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_138766.2</a> , <a href="#">NP_620121.1</a>  |
| <b>RefSeq Size:</b>           | 5152 bp  |
| <b>RefSeq ORF:</b>            | 2718 bp  |
| <b>Locus ID:</b>              | 5066   |
| <b>UniProt ID:</b>            | <a href="#">P19021</a>   |
| <b>Cytogenetics:</b>          | 5q21.1   |
| <b>Domains:</b>               | Cu2_monoox_C, NHL  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>MW:</b>                    | 100.8 kDa  |
| <b>Gene Summary:</b>          | 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 RC213661