

Product datasheet for **SC329235**

PAM (NM_001177306) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAM (NM_001177306) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAM
Synonyms:	PAL; PHM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001177306, the custom clone sequence may differ by one or more nucleotides

```

ATGGCTGGCCGCTCCCTAGCCTGCTAGTTCTCCTTGTTTTTCCAAGCAGCTGTTTGGCT
TTCCGAAGCCACTTTCTGTCTTAAGAGGTTTAAAGAACTACCAGACCATTTTCCAAT
GAATGCTTTGGTACCACCAGACCCGTAGTTCCTATTGATTCATCAGATTTTGCATTGGAT
ATTGCGATGCCTGGGGTTACACCTAAACAGTCCGATACATACTTCTGCATGTCTATGCGA
ATACCAGTGGATGAGGAAGCCTTCGTGATTGACTTCAAGCCTCGAGCCAGCATGGATACT
GTCCATCACATGTTACTTTTTGGATGCAATATGCCTTCATCCACTGGAAGTTACTGGTTT
TGTGATGAAGGAACCTGTACAGATAAAGCCAATATTCTGTATGCCTGGGCGAGAAATGCT
CCCCCTACCCGGCTCCCCAAAGGTGTTGGATTAGAGTTGGAGGAGAGACTGGAAGTAAA
TACTTTGACTACAGGTACACTATGGGGATATTAGTGCTTTTAGAGATAATAACAAGGAC
TGTTCTGGTGTGCTTACACCTCACACGTCTGCCACAGCCTTAAATTGCTGGCATGTAC
CTTATGATGTCTGTTGACTGTATCCCAGCAGGAGAAAAAGTGGTGAATTCTGACATT
TCATGCCATTATAAAAAATATCCAATGCATGTCTTTGCCATAGAGTTCACACTCACCAT
TTAGGTAAGGTAGTAAGTGGATACAGATAAGAAATGGACAGTGGACACTGATTGGACGG
CAGAGCCCTCAGCTGCCACAGGCTTTCTACCCTGTGGGGCATCCAGTTGATGTAAGTTTT
GGTGACCTACTGGCTGCAAGATGTGTATCACTGGTGAAGGAAGGACAGAAGCCACACAC
ATTGGTGGCAGCTAGTGATGAAATGTGCAACTTATACATTATGTATTACATGGAAGCC
AAGCATGCAGTTTCTTTTCATGACCTGTACCCAGAATGTAGCTCCAGATATGTTTCAAGACC
ATACCACCAGAGGCCAACATTCCAATCCCCTGAAAGTCTGATATGGTTATGATGCATGAA
CATCATAAAGAAACAGAAATAAAGATAAGATTCTTTACTACAGCAGCCAAAACGAGAA
GAAGAAGAAAGTGTAGACCAGGGTGATTCTATTCACTACTTTCCAAGCTGCTAGGAGAA
AGGAAGATGTTGTTTCATGTGCACAAATAAATCTACAGAAAAGCAGAAATCAGAGTCA
GACCTGGTAGCTGAGATTGCAAAATGTAGTCCAAAAAAGGATCTTGGTGCATCTGATGCC
AGAGAGGGTGCAACATGAGAGGGTAATGCTATTCTTGTGAGAGACAGAATTCACAAA
TTCCACAGACTAGTATCTACCTGAGGCCACCAGAGAGCAGAGTTTTCTCATTACAGCAG
CCCCACCTGGTGAAGGCACCTGGGAACCAAGACACACAGGAGATTTCCACATGGAAGAG
GCACTGGATTGGCTGGAGTACTTGTACCAGGCCAGGTTTCTGGGGTGGCTTAGAC
CCTAAGAATAACCTGGTATTTTCCACAGAGGTGACCATGTCTGGGATGGAAACTCGTTT
GACAGCAAGTTTGTACCAGCAATAGGACTCGGACCAATTGAAGAAGACACTATTCTT
GTCATAGATCCAATAATGCTGCAGTACTCCAGTCCAGTGGAAAAATCTGTTTTACTTG
CCACATGGCTTGAGTATAGATAAAGATGGGAATTATTGGGTACAGACCTGGCTCTCCAT
CAGGTGTTCAAACCTGGATCCAAACAATAAAGAAGGCCCTGTATTAATCCTGGGAAGGAGC
ATGCAACCAGGCAGTGACCAGAATCACTTCTGTCAACCCACTGATGTGGCTGTGGATCCA
GGCACTGGAGCCATTTATGTATCAGATGGTTACTGCAACAGCAGGATTGTGCAGTTTTCA
CCAAGTGGAAAGTTCATCACACAGTGGGAGAAAGTCTTCAGGGAGCAGTCTCTGCCA
GGCCAGTTCAGTGTCTCACAGCTTGGCTCTTGTGCCTCTTTGGGCCAATTATGTGTG
GCAGACCCGGAAAAATGGTCGGATCCAGTGTTTAAAACGACACCAAGAATTTGTGAGA
GAGATTAAGCATTATCATTTTGGAAAGAAATGATTTGCAATTTTATATATACCAGGCTTG
CTTTTGCAGTGAATGGGAAGCCTCATTTTGGGGACCAAGAACCTGTACAAGGATTTGTG
ATGAACTTTTCCAATGGGAAATTATAGACATCTTCAAGCCAGTGCAGCAAGCACTTTGAT
ATGCCTCATGATATTGTTGCATCTGAAGATGGGACTGTGTACATTGGAGATGCTCATACC
AACACCGTGTGGAAGTTCACCTTGACTGAGAAATGGAACATCGATCAGTTAAAAAGGCT
GGCATTGAGGTCCAGGAAATCAAAGAAGCCGAGGCAGTTGTTGAAACCAAAATGGAGAAC
AAACCCACCTCCTCAGAATTGCAGAAGATGCAAGAGAAACAGAACTGATCAAAGAGCCA
GGCTCGGGAGTGCCTGTTGTTCTCATTACAACCCTTCTGGTTATTCGGTGGTTGCTCTG
CTGGCCATTGCCATATTTATTCGGTGGAAAAAATCAAGGGCTTTGGAGATTCTGAACAC
AAACTCGAGACGAGTTCAGGAAGAGTACTGGGAAGATTTAGAGGAAAGGGAGTGGAGGC
TTAAACCTTGGTAATTTCTTGTGAAGCCGTAAGGGCTACAGTCCAAAAGGGTTTGACCGG
CTTAGCACTGAGGGCAGTGACCAAGAGAAAGAGGATGATGGAAGTGAATCAGAAGAGGAG
TATTCAGCACCTCTGCCTGCGCTCGCACCTTCTCTCTCTGA
    
```

Restriction Sites:	Please inquire
ACCN:	NM_001177306
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001177306.1</u> , <u>NP_001170777.1</u>
RefSeq Size:	5356 bp
RefSeq ORF:	2922 bp
Locus ID:	5066
UniProt ID:	<u>P19021</u>
Cytogenetics:	5q21.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) encodes isoform e. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>