

## Product datasheet for SC108132

### PEA15 (NM\_003768) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PEA15 (NM\_003768) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PEA15  
**Synonyms:** HMAT1; HUMMAT1H; MAT1; MAT1H; PEA-15; PED; PED-PEA15; PED/PEA15  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003768 edited  
 ATGGCTGAGTACGGGACCCTCCTGCAAGACCTGACCAACAACATCACCCCTGAAGATCTA  
 GAACAGCTCAAGTCGGCCTGCAAGGAAGACATCCCCAGCGAAAAGAGTGAGGAGATCACT  
 ACTGGCAGTGCCTGGTTTAGCTTCTGGAGAGCCACAACAAGCTGGACAAAGACAACCTC  
 TCCTACATTGAGCACATCTTTGAGATCTCCCGCCGTCCTGACCTACTCACTATGGTGGTT  
 GACTACAGAACCCGTGTGCTGAAGATCTCTGAGGAGGATGAGCTGGACACCAAGCTAACC  
 CGTATCCCCAGTGCCAAGAAGTACAAAGACATTATCCGGCAGCCCTCTGAGGAAGAGATC  
 ATCAAATTGGCTCCCCACCGAAGAAGGCCTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003768 unedited  
 GTTTCAGAATTTGTAATACGACTTCACTATANNGCGGCCGCAATTCGGCACGAGGGG  
 ACGCTGCTTAGGAACCGGGGACTCAGGAGTGCCCGCGCCCTGAGCGCTCAGCTCCAGAGG  
 CGTCATGGCTGAGTACGGGACCCCTCCTGCAAGACCTGACCAACAACATCACCCCTGAAGA  
 TCTAGAACAGCTCAAGTCGGCCTGCAAGGAAGACATCCCCAGCGAAAAGAGTGAGGAGAT  
 CACTACTGGCAGTGCCTGGTTTAGCTTCTGGAGAGCCACAACAAGCTGGACAAAAGACA  
 ACCTCTCCTACATTGAGCACATCTTTGAGATCTCCCGCCGTCCTGACCTACTCACTATGG  
 TGGTTGACTACAGAACCCGTGTGCTGAAGATCTCTGAGGAGGATGAGCTGGACACCAAGC  
 TAACCCGTATCCCCAGTGCCAAGAAGTACAAAGACATTATCCGGCAGCCCTCTGAGGAAG  
 AGATCATCAAATTTGGCTCCCCACCGAAGAAGGCCTGAGCAAGGGGGAGGAAGAGGAGGA  
 AGGTTGGACCTTCATCAGACCACTCCCTTCCCCATCCTCCAGGAGAGGGGGCAAGGGCA  
 ACCCACCATCTACCCACTTACTAACCTGGTCCTAACCCCTTACTGTGCGCGTGTGTGTG  
 CGTGTGCGCAGCTCTGGCTGTTTGTCTATATGTCTAGCTCATCTAGTTCCTCTTCTTAA  
 GGGATGGGGTACCGCTAGGGGGAGGGGCTGAGTTTCCCCACTTTAAGAGGAAGTGG  
 GGGCTATTCTATGCAAATAGAAATCAGCACATTCTTCTACTTTCTTTCTCAACTCCC  
 CCATATCTTTAAGTGTGGAAGCCAGAAGGACCTGCATTTTCTACATTTGAGAGCTGAC  
 ATANGGTTACGTATGGAGAG



[View online »](#)

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003768 unedited            GAACGCCGCCGCTTACTANATCGAGTTTTTTTTTTTTTTTTTTTTTTGGCAGTGCAGTTTAAAT            ATACATATATGTAGAATATATATGTACACACAGTTAGCACGGTCAGGGTGGGGAGGGCA            TCTTGGGGTAGGCAGGAGGCTGGGGTCACTCACTGTACTGTAGTATGTGGCTAGGAGGT            GTTCACAAGCCCAGGGGGCCAGGATATCTAGTAAAGAAGGGTTTCCTAAGTAAGTCCCTT            CCGGGATTGAATTGGGGTGGGGATCGGTGCAAAGGAAAACACTGTAGTTAACTTCTTCT            GGCTTGGGATGTTCTTCCCAAGGAGAGAGGGAAGGTTGCCTACAATAACCAAGTTGGGA            CCTATAGATGGTGGTGCAGGATTCGTGTTAAACCTAAGGGTCTCATTCTTCAACCTC            CCTAGGTTTAGAGTGCAACAGTCTGAGTAGGAACAACCTGAGTGGAAAGAGGGGCTCCCT            CTCTCTGCCCTCATCCCCATCTCAGGCTCAGTGGTACATGTTCCCAGCACAGTCTCTCCA            GAGTACAGGTGGTGGGGCATCTAACGCTGGCTGCTCCATGGGGTTTGATCTTAGGGAC            CAGGAAAGGATCCCTGGCTCATACTATGCTAGGCCCATGAGAGACAAAAAGGGACCTGC            TGGTACTCANGAAACAGTCCAGCACAGGAGTACAAACATGGAACCTCTGGCTTTTCTTGC            CCCTTCCAGTGGGGTTGAAGTGGTCTTTTGCCTTTTCGTCCTCCACTGCTTTTCTCGG            ATCCACCTACTCTNCCATACCTTACCCTATGTCAGCTCCTCAATGTAGGAAAATGCAN            GTTCTTTCTGCTTCCACACTTAAAGAATGGGGGAGTGGAGGAAAGGAANTAGAAGNATG            TGCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003768
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003768.
<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>

RefSeq: [NM\\_003768.2](#), [NP\\_003759.1](#)

RefSeq Size: 2486 bp

RefSeq ORF: 393 bp

Locus ID: 8682

UniProt ID: [Q15121](#)

Cytogenetics: 1q23.2

Domains: DED

Protein Families: Druggable Genome

**Gene Summary:** This gene encodes a death effector domain-containing protein that functions as a negative regulator of apoptosis. The encoded protein is an endogenous substrate for protein kinase C. This protein is also overexpressed in type 2 diabetes mellitus, where it may contribute to insulin resistance in glucose uptake. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (2) lacks two alternate exons in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus than isoform a. Variants 2 and 3 encode the same isoform (b).