

## Product datasheet for **RG236085**

### PEA15 (NM\_001297576) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PEA15 (NM\_001297576) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PEA15  
**Synonyms:** HMAT1; HUMMAT1H; MAT1; MAT1H; PEA-15; PED; PED-PEA15; PED/PEA15  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236085 representing NM\_001297576.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGATGAAGGAAACAAGCTCTGCCAAGCCCCACCATGGCCAGGCCAGACCAGCCAGTCATGGCT
GAGTACGGGACCCCTCTGCAAGACCTGACCAACAACATCACCCCTGAAGATCTAGAACAGCTCAAGTCG
GCCTGCAAGGAAGACATCCCCAGCGAAAAGAGTGAGGAGATCACTACTGGCAGTGCCTGGTTAGCTTC
CTGGAGAGCCACAACAAGCTGGACAAAGACAACCTCTCCTACATTGAGCACATCTTTGAGATCTCCCGC
CGTCCTGACCTACTCACTATGGTGGTTGACTACAGAACCCGTGTGCTGAAGATCTCTGAGGAGGATGAG
CTGGACACCAAGCTAACCCTATCCCCAGTGCCAAGAAGTACAAAGACATTATCCGGCAGCCCTCTGAG
GAAGAGATCATCAAATTGGCTCCCCACCGAAGAAGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236085  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEDEGNKLCQAPPWPGQTSVMAEYGTLLQDLTNNITLEDLEQLKSACKEDIPSEKSEEITGSAWFSF
LESHNKLDKDNLSYIEHIFEISRRLDLMVVDYRTRVLKISEEDELDTKLTRIPSAKKYKDIIRQPSF
EEIIKLAPPPKKA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVDSDHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



Cloning Scheme:



ACCN: NM\_001297576

ORF Size: 453 bp

OTI Disclaimer: 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

RefSeq: [NM\\_001297576.2](#)

RefSeq Size: 2816 bp

RefSeq ORF: 456 bp

Locus ID: 8682

UniProt ID: [Q15121](#)

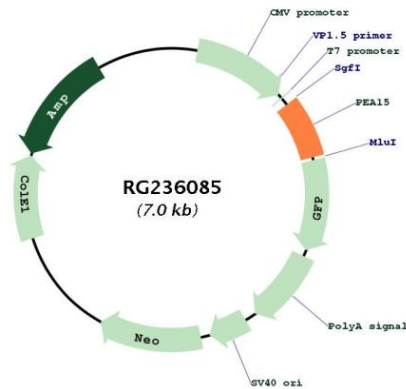
**Cytogenetics:** 1q23.2

**Protein Families:** Druggable Genome

**MW:** 17.8 kDa

**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]

**Product images:**



Circular map for RG236085