

## Product datasheet for **RC205832**

### Apelin (APLN) (NM\_017413) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apelin (APLN) (NM\_017413) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Apelin  
**Synonyms:** APEL; XNPEP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC205832 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGAATCTGCGGCTCTGCGTGCAGGCGCTCCTGCTGCTCTGGCTCTCCTTGACCGCGGTGTGTGGAGGGT  
 CCCTGATGCCGCTTCCCGATGGGAATGGGCTGGAAGACGGCAATGTCCGCCACCTGGTGCAGCCCAGAGG  
 GTCAAGGAATGGGCCAGGGCCCTGGCAGGAGGTGGAGGAAATCCGCCGCCAGCGCCCCGCCTCTCC  
 CATAAGGGACCCATGCCTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC205832 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MNLRLCVQALLLLWLSLTAVCGGSLMPLPDGNGLEDGNVRHLVQPRGSRNGPGPWQGGRRKFRRQRPRLS  
 HKGPMPF

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6064\\_b04.zip](https://cdn.origene.com/chromatograms/mk6064_b04.zip)

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_017413

ORF Size: 231 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).

**Reconstitution Method:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_017413.5](#)

**RefSeq Size:** 3238 bp

**RefSeq ORF:** 234 bp

**Locus ID:** 8862

**UniProt ID:** [Q9ULZ1](#)

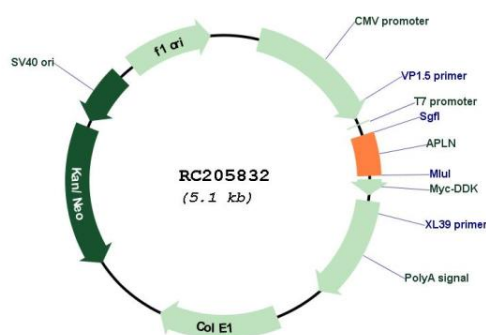
**Cytogenetics:** Xq26.1

**Protein Families:** Druggable Genome, Secreted Protein

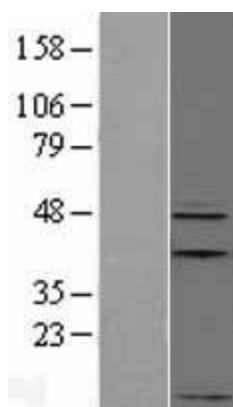
**MW:** 8.6 kDa

**Gene Summary:** This gene encodes a peptide that functions as an endogenous ligand for the G-protein coupled apelin receptor. The encoded preproprotein is proteolytically processed into biologically active C-terminal peptide fragments. These peptide fragments activate different tissue specific signaling pathways that regulate diverse biological functions including fluid homeostasis, cardiovascular function and insulin secretion. This protein also functions as a coreceptor for the human immunodeficiency virus 1. [provided by RefSeq, Feb 2016]

## Product images:



Circular map for RC205832



Western blot validation of overexpression lysate (Cat# [LY402586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205832 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).