

Product datasheet for **RC235418**

APELA (NM_001297550) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: APELA (NM_001297550) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: APELA
Synonyms: ELA; Ende; tdl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC235418 representing NM_001297550
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGATTTCAGCAATTCCTTTTGCATTTTTATTTTTATTATGAGTCTTCTCCTTATCAGCGGACAGA
GACCAGTTAATTTGACCATGAGAAGAAACTGCGCAAACAAATTGCCTTCAGAGGAGATGTATGCCTCT
CCATTCACGAGTACCCTTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235418 representing NM_001297550
Red=Cloning site Green=Tags(s)

MRFQQLFAFFIFIMSLLLISGQRPVNL TMRRLRKHNLQRRMPLHSRVFPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001297550

ORF Size: 162 bp

OTI Disclaimer: 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.

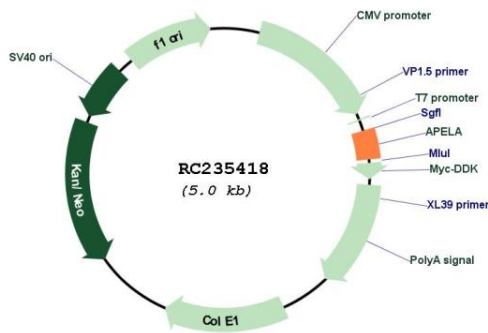
RefSeq: [NM_001297550.2](#)

RefSeq Size: 2622 bp

RefSeq ORF: 165 bp
 Locus ID: 100506013
 UniProt ID: [PODMC3](#)
 Cytogenetics: 4q32.3
 MW: 7.1 kDa

Gene Summary: This gene encodes a peptide hormone that binds to the Apelin receptor. The encoded protein is required for heart development in zebrafish and has been shown to maintain self-renewal of human embryonic stem cells through activation of the PI3K/AKT pathway. Experiments in human and mouse cell lines point to additional roles for the encoded protein in angiogenesis and regulation of vascular tone. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC235418