

Product datasheet for **RG235418**

APELA (NM_001297550) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: APELA (NM_001297550) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: APELA
Synonyms: ELA; Ende; tdl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235418 representing NM_001297550.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGATTTAGCAATTCCTTTTGCATTTTTTATTTTATTATGAGTCTTCTCCTTATCAGCGGACAG
AGACCAGTTAATTTGACCATGAGAAGAAAACGCGCAAACACAATTGCCTTCAGAGGAGATGTATGCCT
CTCCATTCACGAGTACCCTTTCCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235418
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MRFQQFLFAFFIFIMSLLLISGQRPVNL TMRRLRKHNLQRRCMPLHSRVFPF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



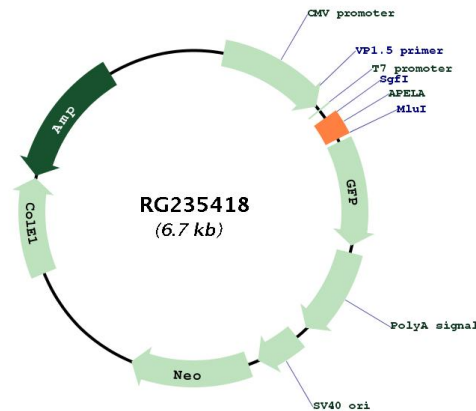
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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).
RefSeq:	NM_001297550.2
RefSeq Size:	2622 bp
RefSeq ORF:	165 bp
Locus ID:	100506013
UniProt ID:	P0DMC3
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]