

Product datasheet for RC223903

APOLD1 (NM_030817) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: APOLD1 (NM_030817) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: APOLD1
 Synonyms: VERGE
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC223903 representing NM_030817
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAATGGAGAGGCCGGCGGCCGGGAGCCGCATGGGCCGACGCGCTGCGGCGCTTCCAGGGACTGC
 TGCTGGACCGCCGAGGCCGGCTGCACGGCCAGGTGCTGCGCTGCGCGAGGTGGCCCGCGCCTGGAGCG
 CCTGCGCAGGCGCTCCCTCGTAGCCAACGTGGCCGGCAGCTCGCTGAGCGCAACGGGCGCCCTCGCCGCC
 ATCGTGGGGCTCTCGCTCAGCCCGGTACCCTGGGGACCTCGCTGCTGGTGTGCGCCGTGGGGCTGGGG
 TGCCACAGCCGGAGGGCCGTACCATCACGTCCGATCTCTCGCTGATTTCTGCAACTCCCGGGAGCT
 GCGGAGGGTGCAGGAGATCGCGGCCACCTGCCAGGACCAGATGCGAGAGATCCTGAGCTGCCTCGAGTTT
 TTCTGCCGCTGGCAGGGCTGCGGGGACCGCCAGCTGCTGCAAGTGGGAGGAACGCTCCATCGCCCTGT
 ACAATTCTGTCTACTTTCATCGTCTTCTTTGGCTCACGTGGCTTCTCATCCCCAGGCGGGCGGAGGGGA
 CACCAAGGTTAGCCAGGCCGTGCTGAAGGCCAAGATTCAGAACTGGCCGAGAGCCTGGAGTCTGCACC
 GGGGCTCTGGACGAACTCAGCGAGCAGCTGGAGTCTCGGGTTCAGCTCTGCACCAAGTCCAGTCTGGCC
 ACGACCTAAGATCTCTGCTGACCAGCGTGCAGGGCTGTTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223903 representing NM_030817
Red=Cloning site Green=Tags(s)

MGMERPAAREPHGPDALRRFQGLLLDRRGRLHGQVLRRLREVARRLERLRRRSLVANVAGSSLSATGALAA
 IVGLSLSPVTLGTSLLSAVGLGVATAGGAVTITSDLSLIFCNSRELRRVQEIAATCQDQMREILSCLEF
 FCRWQCGCDRQLLQCGRNASIALYNSVYFIVFFGSRGFLIPRRAEGDTKVSOAVLKAKIQKLAESLESCT
 GALDELSEQLSRVQLCTKSSRGHDLKISADQRAGLFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1516_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_030817

ORF Size: 744 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_030817.3](#)

RefSeq Size: 4608 bp

RefSeq ORF: 747 bp

Locus ID: 81575

UniProt ID: [Q96LR9](#)

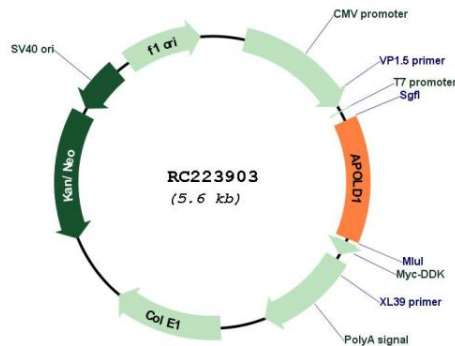
Cytogenetics: 12p13.1

Protein Families: Transmembrane

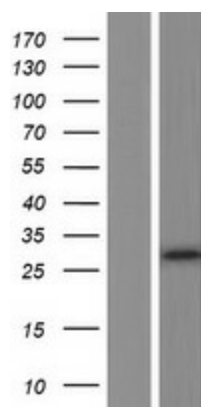
MW: 26.9 kDa

Gene Summary: APOLD1 is an endothelial cell early response protein that may play a role in regulation of endothelial cell signaling and vascular function (Regard et al., 2004 [PubMed 15102925]). [supplied by OMIM, Dec 2008]

Product images:



Circular map for RC223903



Western blot validation of overexpression lysate (Cat# [LY410687]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223903 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).