

Product datasheet for **RC225363**

APIAR (NM_001128426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	APIAR
Synonyms:	2C18; C4orf16; gamma-BAR; GBAR; PRO0971
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225363 representing NM_001128426
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGGAAC TGCTGCTGGACGCAGTGCTTCGGACTGCTTCGCAAGGAAGCGGGCGGCTGCAGCGAGTAG
GCGGCGGCGGAGGATCCAAGTATTTAGAACATGCTCAAGAGGTGAGCACTTAACAATAGAGTTTGAGAA
TCTAGTAGAAAGTGATGAAGGGGAGAGCCAGGAAGCAGTCATAGGCCTCTTACTGAGGAAGAAATTGTT
GACCTAAGAGAAAGGCATTATGATTCCATTGCCGAAAAACAAAAAGATCTTGATAAGAAAAATCAAAAAG
AGCAAGAAAGGCAGAGAATTGTGCAGCAATATCATCCTTCCAACAATGGAGAAATCAAAAGTTCAGGACC
AGAAGATGACTTCCAATCTTGTTGAGAAATATGAAGTCACAGTATGAAGTTTTTCGAAGTAGTAGACTC
TCATCAGATGCTACAGTTTGCACCAAAACAGAAAGCAGTTGTGATTTAATGACCAAACTAAATCAA
CTAGTGAAATGACGACAGCACATCCTTAGATCTAGAGTGGGAAGATGAAGAAGGAATGAATAGAATGCT
TCCAATGAGAGAACGTTCCAAAACAGAGGAAGACATTCTACGGGCAGCACTTAAGTATAGCAACAAGGAG
ACTGGAAGTAATCTACATCAGCCTCTGATGATTCCAATGGGCTGGAGTGGGAAAAATGATTTGTAGTG
CCGAAATGGATGATAATGGAAATCCGAGTATTCTGGATTTGTAATCCTGTATTAGAACTGTCTGATT
TGGCATAAGGCATTCTGACACAGATCAACAGACTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225363 representing NM_001128426
Red=Cloning site Green=Tags(s)

MGNCCWTQCFGLLRKEAGRLQRVGGGGSKYFRTCSRGEHLTIEFENLVESDEGESPGSSHRPLTEEEIV
DLRERHYDSIAEKQKDLKKIQKEQERQRIYQQYHPSNNGEYQSSGPEDDFESCLRNMKSQYEVFRSSRL
SSDATVLPNTESSCDLMTKTKSTSGNDDSTSLDLEWEDEEGMNRMLPMRERSKTEEDILRAALKYSNKE
TGSNPTSASDDSNLEWENDFVSAEMDDNGNSEYSGFVNPVLELSDSGIRHSDTDQQTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1498_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128426

ORF Size: 807 bp

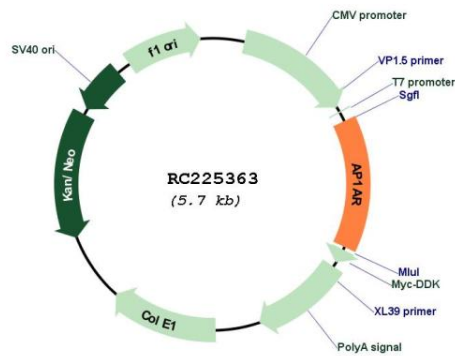
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

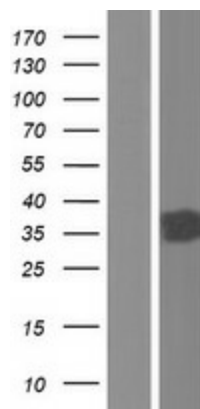
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001128426.3</u>
RefSeq ORF:	810 bp
Locus ID:	55435
UniProt ID:	<u>Q63HQ0</u>
Cytogenetics:	4q25
MW:	30.3 kDa
Gene Summary:	Necessary for adaptor protein complex 1 (AP-1)-dependent transport between the trans-Golgi network and endosomes. Regulates the membrane association of AP1G1/gamma1-adaptin, one of the subunits of the AP-1 adaptor complex. The direct interaction with AP1G1/gamma1-adaptin attenuates the release of the AP-1 complex from membranes. Regulates endosomal membrane traffic via association with AP-1 and KIF5B thus linking kinesin-based plus-end-directed microtubular transport to AP-1-dependent membrane traffic. May act as effector of AP-1 in calcium-induced endo-lysosome secretion. Inhibits Arp2/3 complex function; negatively regulates cell spreading, size and motility via intracellular sequestration of the Arp2/3 complex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225363



Western blot validation of overexpression lysate (Cat# [LY426954]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225363 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).