

Product datasheet for **RC222598**

ARVCF (NM_001670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARVCF (NM_001670) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARVCF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC222598 representing NM_001670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGACTGCAATGTGCACTCGGCCGCCAGCATCTGGCCTCGGTGAAGGAGCAGGAGGCCCGCTTCG
 AGAGGCTGACACGGGCACTGGAGCAGGAGCGGCCATGTTGCCCTACAGCTGGAGCGTGCCAGCAGCC
 TGGCATGGTCAGTGGTGGCATGGCAGTGGCAGCCCTGCCAATGGCCTGGCAACAGCTGGTCTCCAG
 GAGCAGAGCCAGGCAGCCAGGCCTCACTGGCCACGATGCCGAGGCACCTGATGTGCTGGAGGAGACCG
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 CCGGGCACCAGACCAAGGTACCAAGACTGTCAAGACGGTACCACCTCGGACAGTACGCCAGGTGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222598 representing NM_001670
 Red=Cloning site Green=Tags(s)

MEDCNVHSAASILASVKEQEARFERLTRALEQERRHVALQLERAQQPMVSGGMGSGQPLMAWQQLVLQ
 EQSPGQSASLATMPEAPDVLEETVTVEEDPGTPTSHVSIIVTSEDGTTTRTETKVTKTVKVTVTRTVRQVP
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 RPPRAGPLGPGGDGCF TLPGHREAFPVGPPEPGRSLPERFQAEPYGLEDDTRSLAADEGGPELEP
 DYGTATRRRPECGRGLHTRAYEDTADDGGELADERPAFPMVTAQLAQPERSMGSLDRLVRRSPSVDSAR
 KEPRWRPELPEVLAMLRHPVDPVKANAAAYLQHLCFENEGVKRRVRLRGLPLLVALLDHPRAEVRRA
 CGALRNLSYGRDNDKAAIRDCCGGVPALVRLRAARDNEVRELVTGTLWNLSSYEPLKMWIIDHGLQTLT
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 KDTDNKSVENVCIMRNLSYHVHKEVPGADRYQEAEPGPLGSAVGSQRRRRDDASCFGGKAKEEWFHQG
 KKDGMERNFDTLDLPCRTEAAKGFELL YQPEVVRLYL SLLTESRNFNTLEAAAGALQNL SAGNMMWATY
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 LEEDTVVAVLNTIHEIVSDSLDNARSLQARGVPALVALVASSQVREAKAASHVLQTVWSYKELRGTLQ
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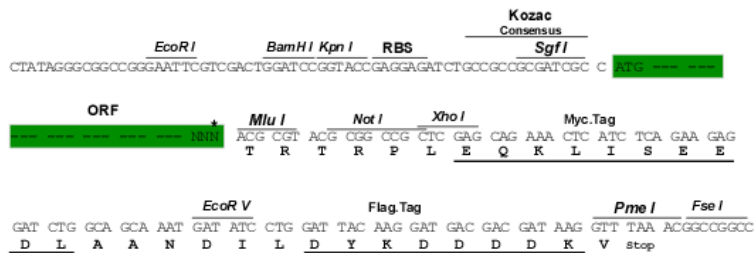
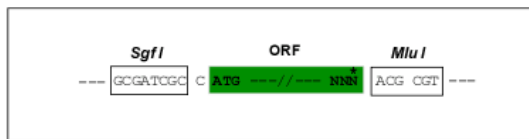
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1790_e08.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_001670

ORF Size: 2886 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 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.

RefSeq: [NM_001670.3](#)

RefSeq Size: 4056 bp

RefSeq ORF: 2889 bp

Locus ID: 421

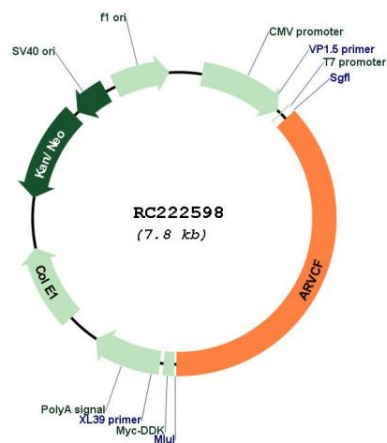
UniProt ID: [O00192](#)

Cytogenetics: 22q11.21

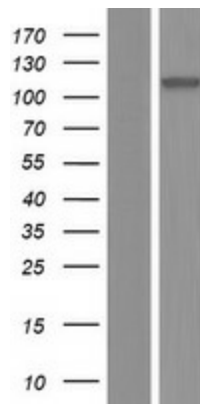
MW: 104.6 kDa

Gene Summary:

Armadillo Repeat gene deleted in Velo-Cardio-Facial syndrome (ARVCF) is a member of the catenin family. This family plays an important role in the formation of adherens junction complexes, which are thought to facilitate communication between the inside and outside environments of a cell. The ARVCF gene was isolated in the search for the genetic defect responsible for the autosomal dominant Velo-Cardio-Facial syndrome (VCFS), a relatively common human disorder with phenotypic features including cleft palate, conotruncal heart defects and facial dysmorphism. The ARVCF gene encodes a protein containing two motifs, a coiled coil domain in the N-terminus and a 10 armadillo repeat sequence in the midregion. Since these sequences can facilitate protein-protein interactions ARVCF is thought to function in a protein complex. In addition, ARVCF contains a predicted nuclear-targeting sequence suggesting that it may have a function as a nuclear protein. [provided by RefSeq, Jun 2010]

Product images:


Circular map for RC222598



Western blot validation of overexpression lysate (Cat# [LY419792]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222598 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).