

## Product datasheet for RC211157

### ARA9 (AIP) (NM\_003977) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARA9 (AIP) (NM_003977) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARA9
Synonyms:	ARA9; FKBP16; FKBP37; PITA1; SMTPHN; XAP-2; XAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211157 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATATCATCGCAAGACTCCGGGAGGACGGGATCCAAAAACGTGTGATACAGGAAGGCCGAGGAG  
AGCTCCCGGACTTCAAGATGGGACCAAGGCCACGTTCCACTACCGGACGCTGCACAGTGACGACGAGGG  
CACCGTGTGGACGACAGCCGGGCTCGTGGCAAGCCCATGGAGCTCATCATTGGCAAGAAGTTCAAGCTG  
CCTGTGTGGGAGACCATCGTGTGCACCATGCGAGAAGGGGAGATTGCCAGTTCTCTGTGACATCAAGC  
ATGTGGTCTGTACCCGCTGGTGGCCAAGAGTCTCCGCAACATCGCGGTGGCAAGGACCCCTGGAGGG  
CCAGCGGCACTGCTGCGGTGTTGCACAGATGCGTGAACACAGCTCCCTGGGCCATGCTGACCTGGACGCC  
CTGCAGCAGAACCCAGCCCTCATCTCCACATGGAGATGCTGAAGGTGGAGAGCCCTGGCACGTACC  
AGCAGGACCCATGGGCCATGACAGACGAAGAGAAGGCAAAGGCAGTGCCACTTATCCACCAGGAGGGCAA  
CCGGTTGTACCGCGAGGGGCATGTGAAGGAGGCTGCTGCCAAGTACTACGATGCCATTGCCTGCCTCAAG  
AACCTGCAGATGAAGGAACAGCCTGGGTCCCCTGAATGGATCCAGCTGGACAAGCAGATCACGCCGCTGC  
TGCTCAACTACTGCCAGTGAAGCTGGTGGTTCGAGGAGTACTACGAGGTGCTGGACCACTGCTCTCCAT  
CCTCAACAAGTACGACGACAACGTCAAGGCCTACTTCAAGCGGGCAAGGCCACGCGGCCGTGTGGAAT  
GCCCAGGAGGCCAGGCTGACTTTGCCAAGTGTGGAGCTGGACCCAGCCCTGGCGCCTGTGGTGAGCC  
GAGAGCTGCGGGCCCTGGAGGCACGGATCCGGCAGAAGGACGAAGAGGACAAAGCCCGTTCCGGGGAT  
CTTCTCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC211157 protein sequence  
Red=Cloning site Green=Tags(s)

MADIARLREDGIQKRVIQEGRGELPDFQDGKATFHRYRTLHSDDEGTVLDDSRARGKPMELIIGKKFKL  
 PVWETIVCTMREGIEIAQFLCDIKHVVL YPLVAKSLRNIAVGKDPLEGQRHCCGVAQMREHSSLGHADLDA  
 LQQNPQPLIFHMEMLKVESPGTYQQDPWAMTDEEKAKAVPLIHQEGNRL YREGHVKEAAAKYYDAIACKL  
 NLQMKEQPGSPEWIQLDKQITPLLLNQCCKLVVEEYEVLDHCCSILNKYDDNVKAYFKRGAHAAVWN  
 AQEAQADF AKVLELDPALAPVVSRELRALEARIRQKDEEDKARFRGIFSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6192\\_a10.zip](https://cdn.origene.com/chromatograms/mk6192_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003977

**ORF Size:** 990 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\\_003977.1](#), [NP\\_003968.1](#)

**RefSeq Size:** 1250 bp

**RefSeq ORF:** 993 bp

**Locus ID:** 9049

**UniProt ID:** [O00170](#)

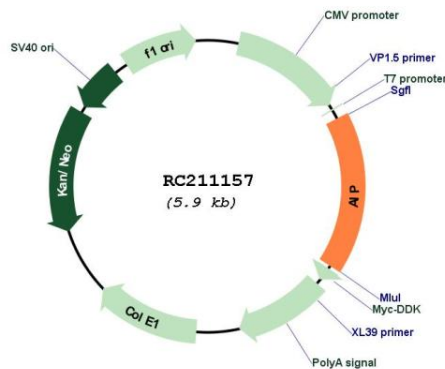
**Cytogenetics:** 11q13.2

**Protein Families:** Druggable Genome, Transcription Factors

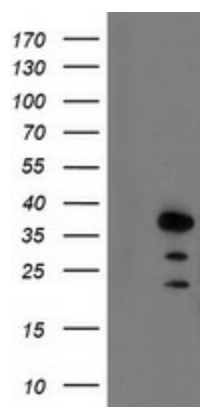
**MW:** 37.7 kDa

**Gene Summary:** The protein encoded by this gene is a receptor for aryl hydrocarbons and a ligand-activated transcription factor. The encoded protein is found in the cytoplasm as part of a multiprotein complex, but upon binding of ligand is transported to the nucleus. This protein can regulate the expression of many xenobiotic metabolizing enzymes. Also, the encoded protein can bind specifically to and inhibit the activity of hepatitis B virus. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]

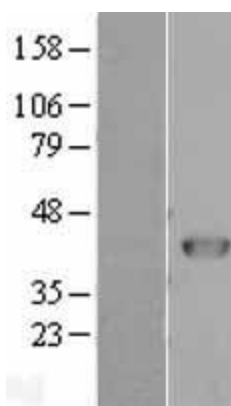
### Product images:



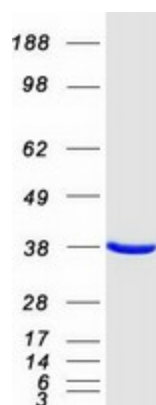
Circular map for RC211157



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AIP (Cat# RC211157, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AIP (Cat# [TA505031]). Positive lysates [LY401308] (100ug) and [LC401308] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401308]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211157 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AIP protein (Cat# [TP311157]). The protein was produced from HEK293T cells transfected with AIP cDNA clone (Cat# RC211157) using MegaTran 2.0 (Cat# [TT210002]).