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Product datasheet for RC237064

ARA9 (AIP) (NM_001302959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARA9 (AIP) (NM_001302959) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIP
Synonyms:	ARA9; FKBP16; FKBP37; PITA1; SMTPHN; XAP-2; XAP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237064 representing NM_001302959 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCTCATCATTGGCAAGAAGTTCAAGCTGCCTGTGTGGGAGACCATCGTGTGCACCATGCGAGAAG GGGAGATTGCCCAGTTCCTCTGTGACATCAAGCATGTGGTCCTGTACCCGCTGGTGGCCAAGAGTCTCCG CAACATCGCGGTGGGCAAGGACCCCCTGGAGGGCCAGCGGCACTGCTGCGGTGTTGCACAGATGCGTGAA CACAGCTCCCTGGGCCATGCTGACCTGGACGCCCTGCAGCAGAACCCCCAGCCCCTCATCTTCCACATGG AGATGCTGAAGGTGGAGAGCCCTGGCACGTACCAGCAGGACCCATGGGCCATGACAGACGAAGAGAAGGC AAAGGCAGTGCCACTTATCCACCAGGAGGGCAACCGGTTGTACCGCGAGGGGCATGTGAAGGAGGCTGCT GCCAAGTACTACGATGCCATTGCCTGCCTCAAGAACCTGCAGATGAAGGAACAGCCTGGGTCCCCTGAAT GGATCCAGCTGGACCAGCAGATCACGCCGCTGCTGCTCAACTACTGCCAGTGCAAGCTGGTGGTCGAGGA GTACTACGAGGTGCTGGACCACTGCTCTTCCATCCTCAACAAGTACGACGACAACGTCAAGGCCTACTTC AAGCGGGGCAAGGCCCACGCGGCCGTGTGGAATGCCCAGGAGGCCCAGGCTGACTTTGCCAAAGTGCTGG AGCTGGACCCAGCCCTGGCGCCTGTGGTGAGCCGAGAGCTGCGGGCCCTGGAGGCACGGATCCGGCAGAA GGACGAAGAGGACAAAGCCCGGTTCCGGGGGATCTTCTCCCAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC237064 representing NM_001302959
Red=Cloning site Green=Tags(s)

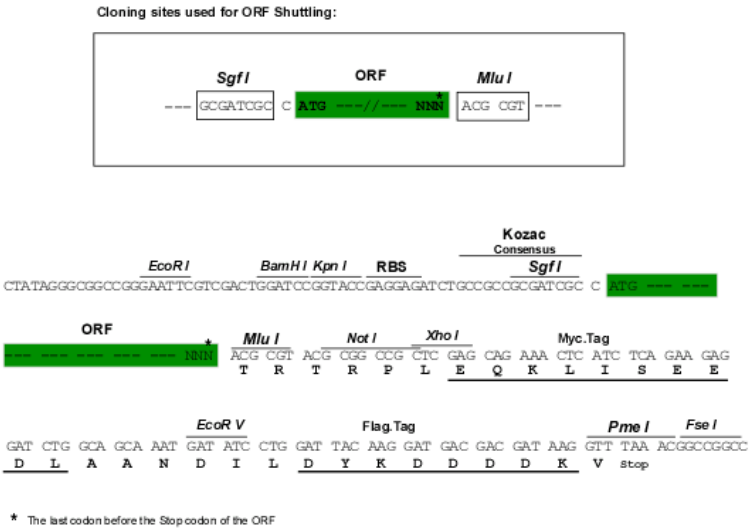
MELIIGKKFKLPVWETIVCTMREGEIAQFLCDIKHVVLYPLVAKSLRNIAVGKDPLEGQRHCCGVAQMRE
HSSLGHADLDALQQNPQPLIFHMEMLKVESPGTYQQDPWAMTDEEKAKAVPLIHQEGNRLYREGHVKEAA
AKYYDAIACLKNLQMKEQPGSPEWIQLDQQITPLLLNYCQCKLVVEEYYEVLDHCSSILNKYDDNVKAYF
KRGKAHAAVWNAQEAQADFAKVLELDPALAPVVSRELRALEARIRQKDEEDKARFRGIFSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

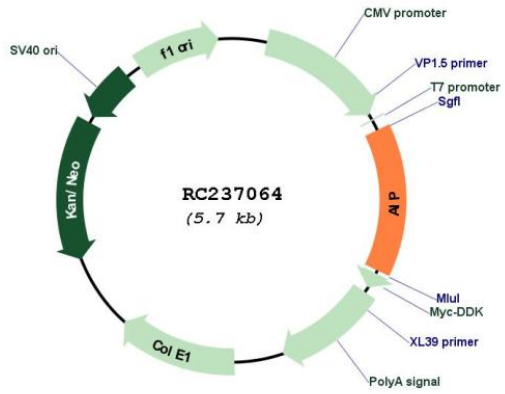
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302959

ORF Size: 813 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_001302959.1, NP_001289888.1
RefSeq Size:	1221 bp
RefSeq ORF:	816 bp
Locus ID:	9049
UniProt ID:	O00170
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome, Transcription Factors
MW:	31.4 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]