

Product datasheet for **RR209977**

Aip (NM_172327) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aip (NM_172327) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aip
Synonyms: XAP2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209977 representing NM_172327
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATCTCATCGCAAGACTTCGAGAGGACGGGATCCAAAAGCGTGTGATACAGGAGGGCCGAGGAG
AGTTGCCGGAATTCAGGATGGCACTAAGGCCACCTTCCACTTCCGGACGCTGCATAGTGACCCGGAGGG
CTCCGTCATAGATGACAGCCGAGCACGGCAAGCCCATGGAGCTCATCATCGGCAAGAAGTTCAAGCTG
CCTGTGTGGGAGACCATCGTGCGTACCATGCGTGAGGGGGAGACGGCCAGTTCCCTGCGATGTCAAGC
ACACAGTCCTGTATCCTCTGGTGGCCAAGAGCCTCCGCAACATCGCTGAGGGCAAGGACCCCTTGGAGGG
CCAGCGGCATTGCTGTGGAATTGCTCAAATGCATGAGCATAGCTCCCTGGGTGATGCGGACCTGGACGCC
CTGCGAGCAGAACCCTCAACCCCTCATCTTCCACATCGAGATGCTGAAGGTGGAGAGCCCTGGCACCTACC
AGCAGGACCCATGGGCAATGACAGATGAGGAGAAAAGCAAAGGCAGTACCACTCATCCACCAAGAGGGCAA
CCGCTTATACCGTGAGGGGCAGGTGAAGGAGGCTGCTGCCAAGTACTACGATGCCATTGCCTGCCTCAAG
AACCTGCAGATGAAGGAGCAGCCTGGATCACCCGACTGGATCCAGTTGGACTTGCAGATCACACCACTGC
TACTCAACTATTGCCAGTGAAGCTGGTGGCTCAGGAGTACTATGAGGTGCTGGATCACTGCTCTCCAT
CCTCAACAAGTATGATGACAATGTCAAGGCTTACTTCAAGCGGGTAAGGCCATGCTGCTGTGTGGAAT
GCCAGGAGGCCAGGCTGACTTTGCCAAGGTGTTGGAGCTCGACCCCTGCCCTGGCGCCTGTGTAAGCA
GAGAGCTGCGGGCCCTGGAGGCAGGATCCGGCAGAAGGATGAGGAGGACAAAGCCCGCTTCCGGGGCAT
CTTTTCCAC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209977 representing NM_172327
Red=Cloning site Green=Tags(s)

MADLIARLREDGIQKRVIQEGRGELPEFQDGTATFHFRTLHSDPEGSVIDDSRARGKPMELIIGKKFKL
 PVWETIVRTMREGETAQFLCDVKHTVL YPLVAKSLRNIAEGKDPLEGQRHCCGIAQMHEHSSLGHADLDA
 LQQNPQLIFHIEMLKVESPGTYQQDPWAMTDEEKAKAVPLIHQEGNRL YREGQVKEAAAKYYDAIACKL
 NLQMKEQPGSPDWIQLDLQITPLLLNQCCKLVAQEYEVLDHCCSSILNKYDDNVKAYFKRKGAAHVWN
 AQEAQADF AKVLELDPALAPVVSRELRALEARIRQKDEEDKARFRGIFSH

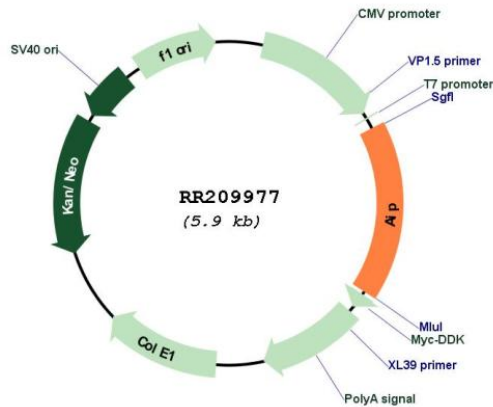
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172327

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:	<ol style="list-style-type: none">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_172327.2 , NP_758830.2
RefSeq Size:	1851 bp
RefSeq ORF:	993 bp
Locus ID:	282827
UniProt ID:	Q5FWY5
Cytogenetics:	1q43
MW:	37.6 kDa
Gene Summary:	May play a positive role in AHR-mediated (aromatic hydrocarbon receptor) signaling, possibly by influencing its receptivity for ligand and/or its nuclear targeting.[UniProtKB/Swiss-Prot Function]