

Product datasheet for **RC237012**

AIPL1 (NM_001285403) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AIPL1 (NM_001285403) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AIPL1
Synonyms: AIPL2; LCA4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237012 representing NM_001285403
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGGCAGC
TCCAAACTTTCATCACCGGATCCCGAGTGATCTTTCATTCCGCACCATGAAATGTGATGAGGAGCGGAC
AGTCATTGACGACAGTCGGCAGGTGGCCAGCCATGCACATCATCATCGAAACATGTTCAAGCTCGAG
GTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCACACCATCCACA
CGGGGGTCTACCCCATCCTATCCCGGAGCCTGAGGCAGATGGCCAGGGCAAGGACCCACAGAGTGGCA
CGTGCACACGTGCGGGTGGCCAACATGTTTCGCTACACACGCTGGGCTACGAGGACCTGGACGAGCTG
CAGAAGGAGCCTCAGCCTCTGGTCTTGTGATCGAGCTGCTGCAGAGGGAGACCTGGAACCTGAGCAATC
ATGAGAAGATGAAGGCGGTGCCCGTCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGA
GGAGGCCCTCTTCCAAGTACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGG
GAGGTGCAGTGGCTGAAGCTGGAGAAGATGATCAATACTCTGATCCTCACTACTGCCAGTGCCTGCTGA
AGAAGGAGGAGTACTATGAGGTGCTGGAGCACACCAAGTATTTCCGGCACCCAGGTGCGCGGGG
CTGCAGGGGCGGACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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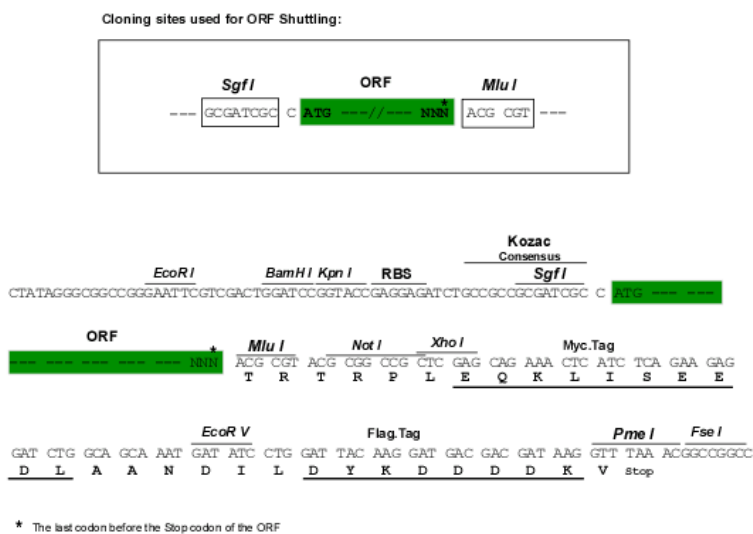
Protein Sequence: >RC237012 representing NM_001285403
 Red=Cloning site Green=Tags(s)

MDAALLLNVEGVKKTILHGGTGE LPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLE
 VWEILLTSMRVHEVAEFWC DTIHTGVYPILSRSLRQMAQGDPT EWHVHTCGLANMFAYHTLGYEDLDEL
 QKEPQLV FVIELLQRETWNLSNHEKMKAVPVLHGEGRNFLFKLGRYEEASSKYQEAIICLRNLQTKKEPW
 EVQWLKLEKMINTLILNYCQCLLKKEEYEVLEHTSDILRHHPGARGCRGGQ

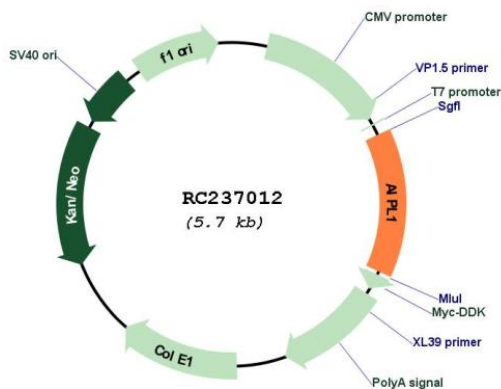
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285403
ORF Size: 786 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_001285403.3
RefSeq Size:	1418 bp
RefSeq ORF:	789 bp
Locus ID:	23746
UniProt ID:	Q9NZN9
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
MW:	30.9 kDa
Gene Summary:	Leber congenital amaurosis (LCA) is the most severe inherited retinopathy with the earliest age of onset and accounts for at least 5% of all inherited retinal diseases. Affected individuals are diagnosed at birth or in the first few months of life with nystagmus, severely impaired vision or blindness and an abnormal or flat electroretinogram. The photoreceptor/pineal-expressed gene, AIPL1, encoding aryl-hydrocarbon interacting protein-like 1, is located within the LCA4 candidate region. The encoded protein contains three tetratricopeptide motifs, consistent with chaperone or nuclear transport activity. Mutations in this gene may cause approximately 20% of recessive LCA. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]