

Product datasheet for RC218193

AIPL1 (NM_001033054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIPL1 (NM_001033054) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIPL1
Synonyms:	AIPL2; LCA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218193 representing NM_001033054 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGCACGGGCGAGC
TCCAAACTTCATCACCGGATCCCGAGTGATCTTTCATTTCCGCACCATGAAATGTGATGAGGAGCGGAC
AGTCATTGACGACAGTCGGCAGGTGGGCCAGCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAG
GTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTCTGGTGCACACCATCGTTG
ATGCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGGTGCCCGT
CCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCTCTTCCAAGTACCAGGAG
GCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTGGAGA
AGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCT
GGAGCACACCAAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCT
CACGCAGAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGTGGAGCTGGAGCCGTC
TGCAGAAGGCGGTGCGCAGGGAGCTGAGGCTGCTGGAGAACCATGGCCGAGAAGCAGGAGGAGGAGCG
GCTGCGCTGCCGGAACATGCTGAGCCAGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCC
GCACAGTCATCCACAGAGCCACCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGAGGGCCCC
CTGCAGAGCCAGCCACAGAGCCACCCCGTCCCGAGGGCACTCGCTGCAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC218193 representing NM_001033054
Red=Cloning site Green=Tags(s)

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLE
 VWEILLTSMRVHEVAEFWCDTIVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQE
 AIICLRNLQTKPKWEVQWLKLEKMINTLILNYCQCLLKKEEYVELEHTSDILRHHPGIVKAYYVRARA
 HAEVWNEAEAKADLQKVLELEPSMQKAVRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTTEPP
 AQSSTEPPAEPPTAPSAELSAGPPAEPATEPPPSPGHSLQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033054

ORF Size: 963 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_001033054.3](#)

RefSeq Size: 2792 bp

RefSeq ORF: 966 bp

Locus ID: 23746

UniProt ID: [Q9NZN9](#)

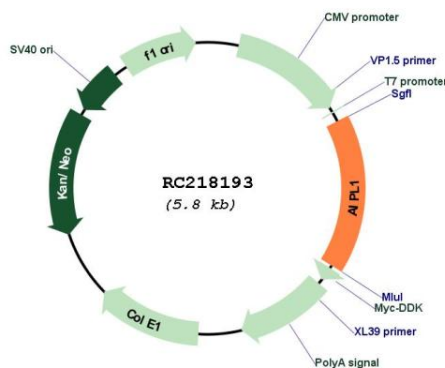
Cytogenetics: 17p13.2

Protein Families: Druggable Genome

MW: 36.5 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]

Product images:



Circular map for RC218193