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Product datasheet for SC335499

AIPL1 (NM_001285402) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIPL1 (NM_001285402) Human Untagged Clone
Tag:	Tag Free
Symbol:	AIPL1
Synonyms:	AIPL2; LCA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335499 representing NM_001285402. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAAATGTGATGAGGAGCGGACAGTCATTGACGACAGTCGGCAGGTGGGCCAGCCCATGCACATCATC ATCGGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCC GAGTTCTGGTGCGACACCATCCACACGGGGGTCTACCCCATCCTATCCCGGAGCCTGAGGCAGATGGCC CAGGGCAAGGACCCCACAGAGTGGCACGTGCACACGTGCGGGCTGGCCAACATGTTCGCCTACCACACG CTGGGCTACGAGGACCTGGACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTGATCGAGCTGCTG CAGGTTGATGCCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCG GTGCCCGTCCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAG TACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTG AAGCTGGAGAAGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTAC TATGAGGTGCTGGAGCACACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTG CGTGCCCGGGCTCACGCAGAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAG CTGGAGCCGTCCATGCAGAAGGCGGTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAG CAGGAGGAGGAGCGGCTGCGCTGCCGGAACATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCA CCCACAGAGCCACCCGCACAGTCATCCACAGAGCCACCTGCAGAGCCACCCACAGCACCATCTGCAGAG CTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCCCCGTCCCCAGGGCACTCGCTGCAGCAC TGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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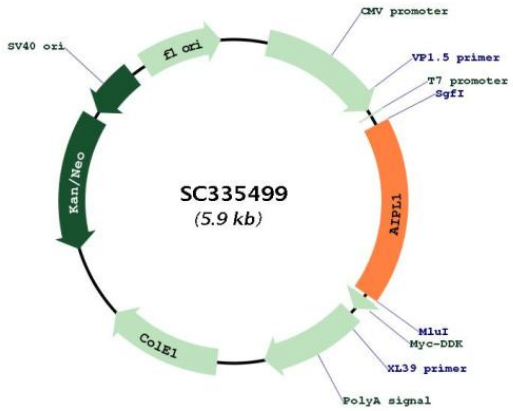
Plasmid Map:



ACCN:	NM_001285402
Insert Size:	1038 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001285402.1
RefSeq Size:	2964 bp
RefSeq ORF:	1038 bp
Locus ID:	23746
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
MW:	39.7 kDa

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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]
Transcript Variant: This variant (7) uses an alternate splice site in the 5' terminal exon resulting in translation initiation at a downstream start codon, compared to variant 1. The resulting protein (isoform 7) is shorter at the N-terminus, compared to isoform 1.

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