

Product datasheet for **SC122309**

AIPL1 (BC012055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIPL1 (BC012055) Human Untagged Clone
Tag:	Tag Free
Symbol:	AIPL1
Synonyms:	AIPL2; aryl hydrocarbon receptor interacting protein-like 1; LCA4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC012055 edited
 CTGCAGCCATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGTCAAGAAAACATTCTGC
 ACGGGGGCACGGGCGAGCTCCCAAACCTCATCACCGGATCCCGAGTGATCTTTCATTTCC
 GCACCATGAAATGTGATGAGGAGCGGACAGTCATTGACGACAGTCGGCAGGTGGGCCAGC
 CCATGCACATCATCATCGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTGCTTACCT
 CCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCACACCATCCACACGGGGTCTACC
 CCATCCTGTCCCGGAGCCTGAGGAGATGGCCAGGGCAAGGACCCACAGAGTGGCAGC
 TGCACACGTGCGGGCTGGCCAACATGTTGCGCTACCACACGCTGGGCTACGAGGACCTGG
 ACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTGATCGAGCTGCTGCAGGTTGATG
 CCCCAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGG
 TGCCCGTCTCCACGGAGAGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGCCT
 TTCCAAGTACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCGT
 GGGAGGTGCAGTGGCTGAAGCTGGAGAAGATGATCAATACTCTGATCCTCAACTACTGCC
 AGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTGGAGCACACCAAGTATTTCTCC
 GGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGGCCGGGCTCACGCAGAGGTGT
 GGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGTGGAGCTGGAGCCGTCCATGC
 AGAAGGCGGTGCGCAGGGAGCTGAGGCTGCTGGAGAACCAGTGGCGGAGAAGCAGGAGG
 AGGAGCGGCTGCGCTGCCGGAACATGCTGAGCCAGGGTCCACGCAGCCTCCCGCAGAGC
 CACCCACAGAGCCACCCGCACAGTCATCCACAGAGCCACCTGCAGAGCCACCCACAGCAC
 CATCTGCAGAGCTGTCCGAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCCCGTCCC
 CAGGGCACTCGCTGCAGCACTGAGCCCCCTGAGGCCACAGCCACCCAGGAGGAGCAA
 GTGGCCTGGTCACTTCTGGTTCGATTGACCAGGATCGTGGTGTCACTTTTTTAAATTTAA
 AATTAATTTTTGAAATCAAAGTCAGACACCCCATGGTAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC012055 unedited NNNAACGTCAGAAATTGTATACGACTCATATAGGCGGCCGGAATTCGGCACGAGGCTGCA GCCATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGTCAAGAAAACATTCTGCACGGG GGCACGGGCGAGCTCCCAAATTCATCACCGGATCCCAGTGATCTTTCATTTCCGCACC ATGAAATGTGATGAGGAGCGGACAGTCATTGACGACAGTCGGCAGGTGGCCAGCCCATG CACATCATCATCGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTGCTTACCTCCATG CGGGTGCACGAGGTGGCCGAGTCTGGTGCACACCATCCACACGGGGTCTACCCATC CTGTCCCAGGAGCTGAGGCAGATGGCCCATGGCAAGGACCCACAGAGTGGCACGTGCAC ACGTGCAGGCTGGCCAACATGTTGCGCTACCACACGCTGGGCTACGAGGACCTGGACGAG CTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTGATCGAGCTGCTGCAGGTTGATGCCCGG AGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGGTGCC GTCCTCCACGGAGAGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCC AAGTACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCGTGGGAG GTGCAGTGGCTGAAGCTGGAGAAGATGATCAATACTCTGATCCTCAACTACTGCCAGTGC CTGCTGAAGAAGGANGAGTACTATGAGGTGCTGGAGCACACAGTGATATTCTCCGGCAC CACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCAGGCTCACGCANAGTGTGGGATG AGGC
Restriction Sites:	Please inquire
ACCN:	BC012055
Insert Size:	1316 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:	<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:	BC012055.1 , AAH12055.1
RefSeq Size:	1316 bp
Locus ID:	23746
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome

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]