

## Product datasheet for **RC237715**

### AIPL1 (NM\_001285401) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AIPL1 (NM\_001285401) 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:** >RC237715 representing NM\_001285401  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGGCAGC  
TCCCAAATTCATCACCGGATCCCGAGTGATCTTTCATTCCGCACCATGAAATGTGATGAGGAGCGGAC  
AGTCATTGACGACAGTCGGCAGGTGGGCCAGCCATGCACATCATCGAAACATGTTCAAGCTCGAG  
GTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCGACACCATCCACA  
CGGGGGTCTACCCCATCCTATCCCGGAGCCTGAGGCAGATGGCCAGGGCAAGGACCCACAGAGTGGCA  
CGTGACACAGTGCGGGTGGCCAACATGTTTCGCTACACACGCTGGGCTACGAGGACCTGGACGAGCTG  
CAGAAGGAGCCTCAGCCTCTGGTCTTGTGATCGAGCTGCTGCAGGTTGATGCCCGAGTGATTACCAGA  
GGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGGTGCCCGTCTCCACGGAGAGGAAATCG  
GCTCTTCAAGCTGGGCCGCTACGAGGAGGCTCTTCCAAGTACCAGGAGGCCATCATCTGCCTAAGGAAC  
CTGCAGACCAAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTGGAGCACACCAAGTATCTCC  
GGCACCCAGGCATCGTGAAGGCTACTACGTGCGTGCCCGGGCTCACGCAGAGGTGTGAATGAGGC  
CGAGGCCAAGGCGGACCTCCAGAAAGTGTGGAGCTGGAGCTCCATGCAGAAGGCGGTGCGCAGGGAG  
CTGAGGCTGCTGGAGAACCAGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTGCGCTGCCGGAACATGCTGA  
GCCAGGTTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCACAGTATCCACAGAGCCACC  
TGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCA  
CCCCGTCGCCAGGGCACTCGTGCAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237715 representing NM\_001285401  
Red=Cloning site Green=Tags(s)

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLE  
 VWEILLTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQKDPTEWHVHTCGLANMFAYHTLGYEDLDEL  
 QKEPQLPVFVIELLQVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRN  
 LQTKCLLKKEEYEVLEHTSDILRHHPGIVKAYVVRARAHAEVWNEAEAKADLQKLVLELEPSMQKAVRRE  
 LRLLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTPEPPAQSSTEPPAEPPTAPSAELSAGPPAEPATEP  
 PPSPGHSLQH

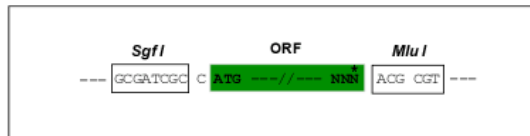
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

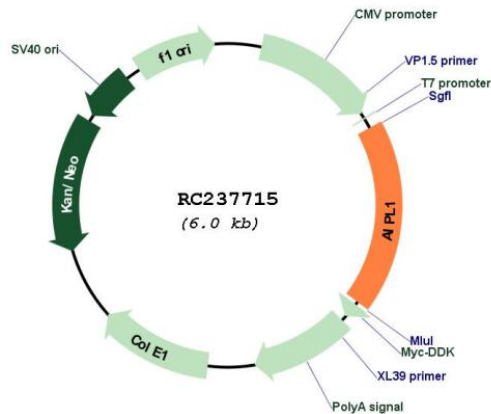
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001285401

<b>ORF Size:</b>	1080 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001285401.3</a>
<b>RefSeq Size:</b>	2918 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	23746
<b>UniProt ID:</b>	<a href="#">Q9NZN9</a>
<b>Cytogenetics:</b>	17p13.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	41.4 kDa
<b>Gene Summary:</b>	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]