

Product datasheet for **RG218193**

AIPL1 (NM_001033054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIPL1 (NM_001033054) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AIPL1
Synonyms:	AIPL2; LCA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218193 representing NM_001033054 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGCACGGGCGAGC
TCCAAACTTCATCACCGGATCCCGAGTGATCTTTCATTTCCGCACCATGAAATGTGATGAGGAGCGGAC
AGTCATTGACGACAGTCGGCAGGTGGGCCAGCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAG
GTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTCTGGTGCACACCATCGTTG
ATGCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGGTGCCCGT
CCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCCTTCCAAGTACCAGGAG
GCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTGGAGA
AGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCT
GGAGCACACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCT
CACGCAGAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGTGGAGCTGGAGCCGTC
TGCAGAAGGCGGTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCCGAGAAGCAGGAGGAGGAGCG
GCTGCGCTGCCGGAACATGCTGAGCCAGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCC
GCACAGTCATCCACAGAGCCACCTGCAGAGCCACCCACAGCACCATCTGCAGAGTGTCCGAGGGCCCC
CTGCAGAGCCAGCCACAGAGCCACCCCGTCCCGAGGGCACTCGCTGCAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218193 representing NM_001033054
 Red=Cloning site Green=Tags(s)

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLE
 VWEILLTSMRVHEVAEFWCDTIVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQE
 AIIICLRNLQTKPKWEVQWLKLEKMINTLILNYCQCLLKKEEYVELEHTSDILRHHPGIVKAYYVRARA
 HAEVWNEAEAKADLQKVLELEPSMQKAVRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTPEP
 AQSSTEPPAEPPTAPSAELSAGPPAEPATEPPPSPGHSLQH

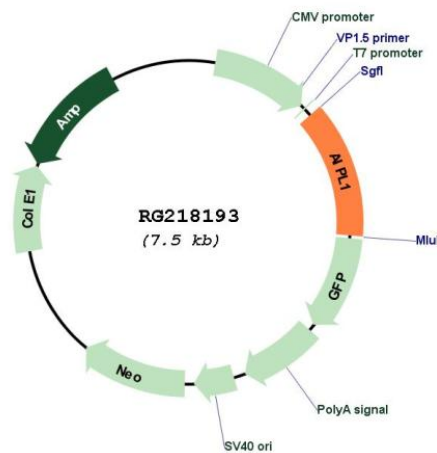
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001033054.3
RefSeq Size:	2792 bp
RefSeq ORF:	966 bp
Locus ID:	23746
UniProt ID:	Q9NZN9
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]