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Product datasheet for RG237727

AIPL1 (NM_001285400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIPL1 (NM_001285400) 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:

>RG237727 representing NM_001285400.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGCGAG
CTCCCAAACTTCATCACCGGATCCCGAGTGGGCCAGCCCATGCACATCATCATCGGAAACATGTTCAAG
CTCGAGGTCTGGGAGATCCTGCTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCGACACC
ATCCACACGGGGGTCTACCCCATCCTATCCCGGAGCCTGAGGCAGATGGCCCAGGGCAAGGACCCCACA
GAGTGGCACGTGCACACGTGCGGGCTGGCCAACATGTTCGCCTACCACACGCTGGGCTACGAGGACCTG
GACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTGATCGAGCTGCTGCAGGTTGATGCCCCGAGT
GATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATGAAGGCGGTGCCCGTCCTCCACGGA
GAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAGTACCAGGAGGCCATCATC
TGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTGGAGAAGATGATC
AATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTGGAGCAC
ACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCTCACGCA
GAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAGCTGGAGCCGTCCATGCAG
AAGGCGGTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTG
CGCTGCCGGAACATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCA
CAGTCATCCACAGAGCCACCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCT
GCAGAGCCAGCCACAGAGCCACCCCCGTCCCCAGGGCACTCGCTGCAGCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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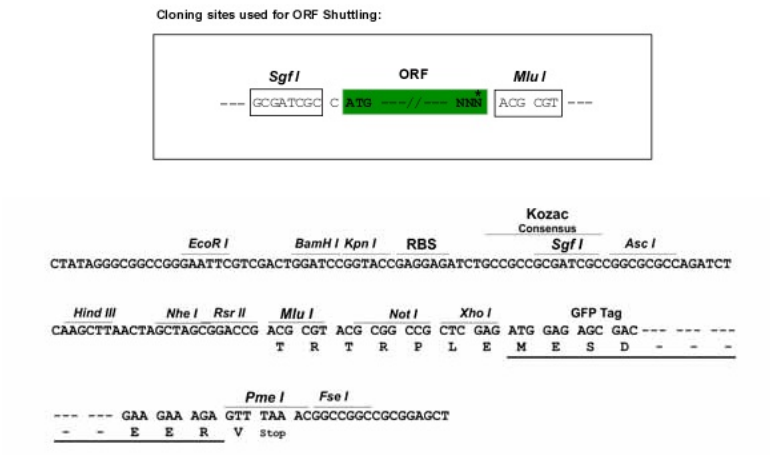
Protein Sequence:

>Peptide sequence encoded by RG237727
Blue=ORF Red=Cloning site Green=Tag(s)

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVGQPMHIIIGNMFKLEVWEILLTSMRVHEVAEFWCDT
IHTGVYPILSRSLRQMAQGKDPTEWHVHTCGLANMFAYHTLGYEDLDELQKEPQPLVFVIELLQVDAPS
DYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRNLQTKEKPWEVQWLKLEKMI
NTLILNYCQCLLKKEEYYEVLEHTSDILRHHPGIVKAYYVRARAHAEVWNEAEAKADLQKVLELEPSMQ
KAVRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTEPPAQSSTEPPAEPPTAPSAELSAGPP
AEPATEPPPSPGHSLQH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001285400

ORF Size: 1086 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.

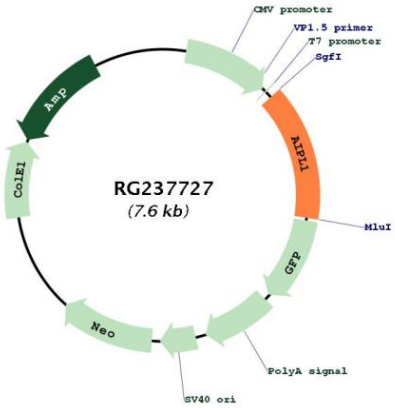
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: NM_001285400.3

RefSeq Size: 2924 bp

RefSeq ORF:	1089 bp
Locus ID:	23746
UniProt ID:	Q9NZN9
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
MW:	41.6 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 RG237727