OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC224737

ARL6IP4 (NM_001002251) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARL6IP4 (NM_001002251) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARL6IP4
Synonyms:	SFRS20; SR-25; SRp25; SRrp37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224737 ORF sequence, codon optimized.
Due to the complexity of NM_001002251, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACGAGCTGGCCCAGCAGGTGAGGAGGGGGGCGCCCGAGAAGGGCGACTGCTCCCCAGGGCACCCG
GGGCTTGGGTGCTCAGGGCATGTGCCGAACGCGCTGCACTGGAGGTGGGTGCTGCCTCCGCCGACACCGG
CGTACGGGGGTGTGGCGCACGAGGTCCAGCTCCACTCCTCGCCTCAGCCGGCGGGGGACGAGCTCGAGAC
GGAACCTGGGGAGTTCGGACTAAGGGGTCAGGGGCTGCTCTCCCGTCACGGCCTGCATCTCGAGCCGCTC
CCAGACCCGAGGCGTCATCCCCACCTCTGCCTCTGGAAAAGGCAAGAGGAGGTCTTTCTGGCCCCCAAGG
CGGCAGGGCGAGAGGAGCCATGGCACACGTGGGCAGTCGAAAGAGGTCCCGGAGCAGATCTCGGTCAAGG
GGGCGGGGTTCAGAAAAAAGAAAAAAAAAGAGTCGCAAAGACACTTCTCGGAACTGCAGTGCCTCAACCT
CACAGGGAAGAAAGGCATCTACCGCCCCAGGCGCTGAAGAACGATCAAAACAGAAGGCACGCCGCCGGAC
ACGCTCTTCTTCTTCCAGCTCAAGTTCCAGCTCCAGCTCTAGTAGTAGCAGCTCCAGCAGCAGCAGCAGC
TCCTCCTCCGACGGAAGAAAAAAAAGGGGAAAATATAAGGACAAAAGAAGAAAGAAAAAAAAAAAGAGAA
AGAAATTGAAGAAAAAAGGTAAGGAAAAGGCAGAAGCCCAGCAAGTGGAAGCACTGCCTGGGCCAAGTCT
TGATCAGTGGCATAGAAGTGCAGGCGAGGAGGAAGACGGTCCAGTACTGACTGACGAGCAGAAGTCTCGC
ATACAGGCTATGAAACCAATGACCAAAGAGGAGTGGGACGCCAGGCAAAGTATTATTAGAAAGGTGGTGG
ACCCAGAGACAGGGAGAACTCGGCTGATTAAAGGAGATGGCGAGGTATTGGAGGAGATTGTAACTAAAGA
AAGACATAGAGAAATTAATAAGCAGGCAACGCGCGGGGATTGTCTGGCCTTTCAGATGAGGGCTGGACTG
CTCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

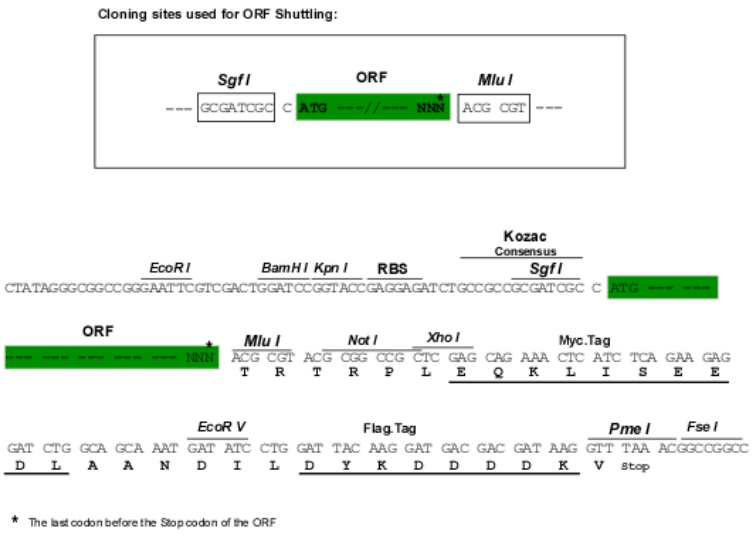
>RC224737 representing NM_001002251
Red=Cloning site Green=Tags(s)

MERAGPAGEEGGAREGRLLPRAPGAWVLRACAERAALEVGAASADTGVRGCGARGPAPLLASAGGGRARD
GTWGVRTKGSGAALPSRPASRAAPRPEASSPPLPLEKARGGLSGPQGGRARGAMAHVGSRKRSRSRSRSR
GRGSEKRKKKSRKDTSRNCSASTSQGRKASTAPGAEERSKQKARRRTRSSSSSSSSSSSSSSSSSSSSS
SSSDGRKKRGKYKDKRRKKKKKRKKLKKKGKEKAEAQQVEALPGPSLDQWHRSAGEEEDGPVLTDEQKSR
IQAMKPMTKEEWDARQSIIRKVVDPETGRTRLIKGDGEVLEEIVTKERHREINKQATRGDCLAFQMRAGL
LP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002251

ORF Size: 1056 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:
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_001002251.1, NP_001002251.1

RefSeq Size: 1633 bp

RefSeq ORF: 690 bp

Locus ID: 51329

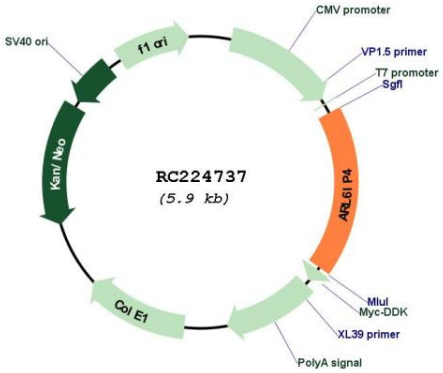
UniProt ID: Q66PJ3

Cytogenetics: 12q24.31

MW: 37.6 kDa

Gene Summary: Involved in modulating alternative pre-mRNA splicing with either 5' distal site activation or preferential use of 3' proximal site. In case of infection by Herpes simplex virus (HSVI), may act as a splicing inhibitor of HSVI pre-mRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224737